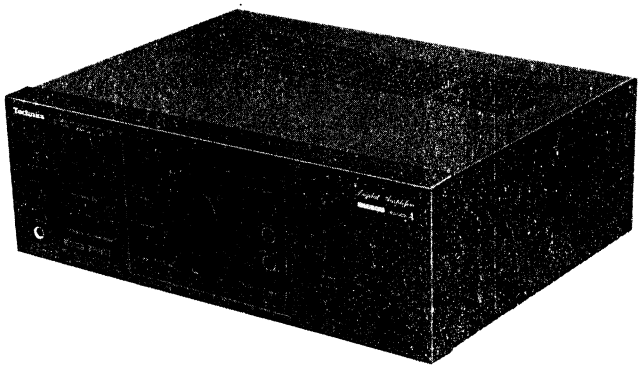
ORDER NO. AD9203073A2

Service Manual

Amplifier

Stereo Integrated Amplifier

SU-X920D



Colour

(K)	Black Type

Areas

Suffix for Model No.	Area	Colour
(E)	Europe	(K)
(EB)	Great Britain	
(EG)	Germany and Italy	

•Please file and use this manual together with the Service Manual for Model No. SU-X902, Order No. AD9103052C2.
•This service manual indicates the main differences between Original SU-X902 (E).

■ LINE-UP OF COMPONENTS

System Name	Unit	
SC-X920D (E)	ST-X902LA (E)	: Tuner
	SU-X920D (E)	: Amplifier
	RS-X920 (E)	: Cassette Deck
	——	: CD Player
	SL-J110R (E)	: Turntable
	SB-CS95 (E)	: Speaker (Made in PAES)
SC-X920D (EB)	ST-X902LA (EB)	: Tuner
	SU-X920D (EB)	: Amplifier
	RS-X920 (EB)	: Cassette Deck
	SL-PJ38A (EB)	: CD Player (Made in MBV)
	SL-J110R (EB)	: Turntable
	SB-CS95 (E)	: Speaker (Made in PAES)
SC-X920D (EF)	ST-X902LA (EF)	: Tuner (Made in PFS)
	SU-X920D (E)	: Amplifier
	RS-X920 (E)	: Cassette Deck
	SL-PJ38A (E)	: CD Player (Made in MBV)
	SL-J110R (E)	: Turntable
	SB-CS95 (E)	: Speaker (Made in PAES)

System Name	Unit	
SC-X920D (EG)	ST-X902LA (EG)	: Tuner
	SU-X920D (EG)	: Amplifier
	RS-X920 (EG)	: Cassette Deck
	SL-PJ38A (EG)	: CD Player (Made in MBV)
	SL-J110R (EG)	: Turntable
	SB-CS95 (E)	: Speaker (Made in PAES)
SC-X920D (EI)	ST-X902LA (EI)	: Tuner (Made in PFS)
	SU-X920D (EG)	: Amplifier
	RS-X920 (EG)	: Cassette Deck
	SL-PJ38A (EG)	: CD Player (Made in MBV)
	SL-J110R (EG)	: Turntable
	SB-CS95 (E)	: Speaker (Made in PAES)

Technics

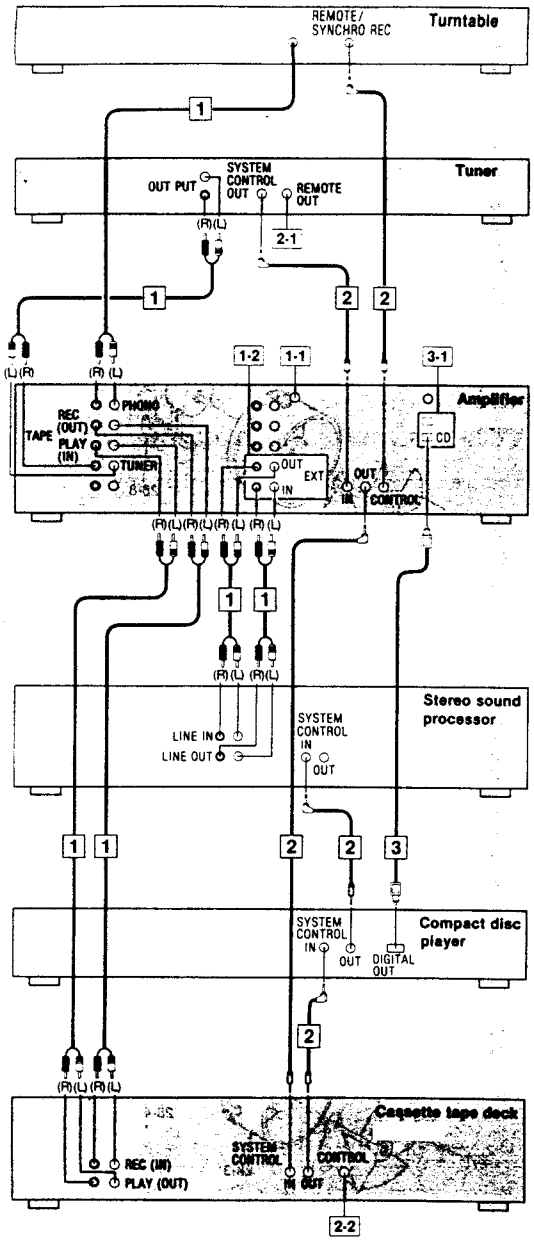
CHANGES

■ CHANGE IN REPLACEMENT PARTS LIST

SU-X902 (Pages 34~39, 42 of service manual.)

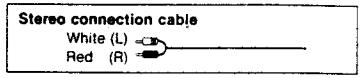
Ref. No.	Part Number		Description	Remarks
	SU-X902 (E)	**SU-X920D (E, EB, EG)**		
TRANSFORMER(S)				
T1	RTP1P5E004-W	**SLT5P288-W**	POWER TRANSFORMER	⚠ (EB)
JACK(S)				
JK902	SJS9333B	**SJS9332B**	AC OUTLET	⚠ (EB)
CAPACITORS				
C709	ECEA1HKA2R2B	**ECEA1HKN2R2B**	CAPACITOR 50 V 2.2μ	
CABINET PARTS				
3	SJP9205-2Y	**SJP9205-2T**	SHORTING PIN	
5	RGR0105C-A1	**RGR0105Q-A**	REAR PANEL	(E) Type (A)
		RGR0105C-E2	REAR PANEL	(E) Type (B)
		RGR0105P-A	REAR PANEL	(EB) Type (A)
		RGR0105B-C2	REAR PANEL	(EB) Type (B)
		RGR0105Q-B	REAR PANEL	(EG) Type (A)
		RGR0105C-F2	REAR PANEL	(EG) Type (B)
11	RMA0138	**RMA0138-1**	PLATE	
13	RGL0094-X	**RGL0094-C**	PANEL LIGHT	
21	RGU0474A-K	**RGU0474B-K**	BUTTON, TAPE	
24	SJS9333A	**SJS9332A**	AC OUTLET COVER	(EB)
28	SYE1128-2	**REM0020-1**	FAN MOTOR ASS'Y	Type (A)
		SYE1128-4	FAN MOTOR ASS'Y	Type (B)
28-1	——	**SHE232-1**	FAN	Type (A)
28-3	SUS233	**RMQ0209-K**	FAN CASE	Type (A)
		SHE233-1	FAN CASE	Type (B)
28-5	SHE234	**RMQ0208-K**	CAP	Type (A)
28-6	——	**SJT783**	TERMINAL	Type (B)
28-7	——	**SJS5215**	CONNECTOR (2P)	Type (B)
28-8	——	**RMQ0212-K**	TERMINAL CAP	Type (A)
35	RFKGUX902E-K	**RFKGUX920DEK**	FRONT PANEL ASS'Y	
40	——	**RJS1A7402**	CONNECTOR (2P)	Type (A)
41	——	**XTBS3+8JFZ1**	SCREW	Type (A)
PACKING MATERIALS				
P1	RPG0841	**RPG1205**	PACKING CASE	
P3	SPSD152	——	ACCESSORIES BOX	
ACCESSORIES				
A1	RQF1096	——	INSTRUCTIONS MANUAL ASS'Y	(E)
A1-1	RFKSUX502E-K	**RQT1494-B**	INSTRUCTIONS MANUAL	(EB)
		RQT1493-D	INSTRUCTIONS MANUAL	(EG)
		RFKSCX520DEK	INSTRUCTIONS MANUAL	(E)
A2	SJA187	——	AC POWER SUPPLY CORD	⚠ (E)

■ CONNECTIONS OF EACH UNIT



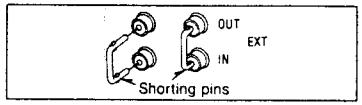
Connection diagrams shown are for connections to a Technics hi-fi component system.
Make connections in the numbered sequential order.

1 Connect the stereo connection cables (included with the turntable, tuner, stereo sound processor, and cassette tape deck).



1-1
"GND" terminal of the amplifier
This terminal is for use with a turntable which has a ground wire.

1-2
"EXT" terminals of the amplifier
When these terminals are not in use, be sure to insert the "shorting" pins (included).



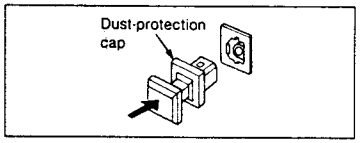
2 Connect the L-type cable (included with the turntable, tuner, stereo sound processor, compact disc player, and cassette tape deck).

2-1
"REMOTE OUT" terminal
This terminal is used to connect to the "REMOTE IN" terminal of the Technics multi-compact disc player (not included).

2-2
"CONTROL" terminal
Make a connection from this terminal to the "CONTROL" terminal for a cassette deck on a Technics multi compact disc player.
(For detailed information, refer to the operating instructions of the Technics multi compact disc player.)

3 Connect the optical-fiber cable (included with the compact disc player).

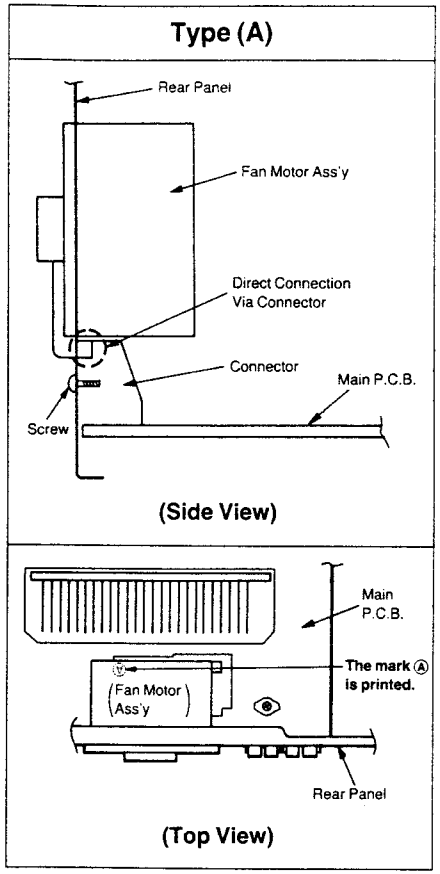
3-1
"DIGITAL IN" (CD, DAT) terminals of the amplifier
These terminals are protected by the dust-protection caps to avoid damage by the dust, etc.
Remove the caps only when the "DIGITAL IN" terminals are to be used.
When these terminals are not being used, attach the caps as shown in the illustration below.

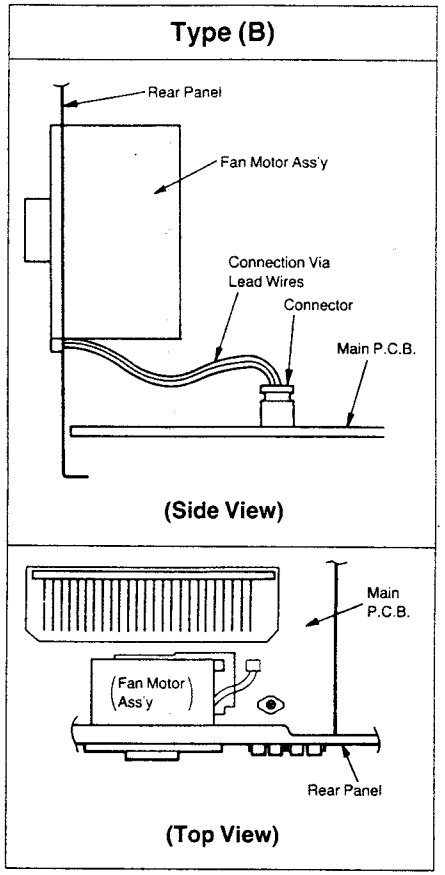


■ Connect the AC power supply cords and AC outlet

(See page 3 of service manual RS-X920, Order No. AD9203069A2.)

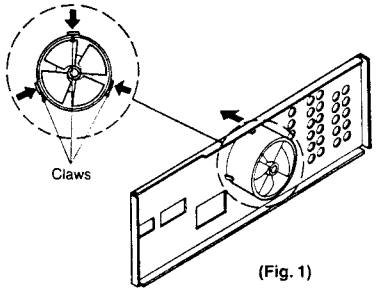
• There are two types of the fan motor, i.e: Types A and B.
Type A...The fan motor terminal is a connector type.
The "mark Ⓐ" is printed on the main P.C.B. of type A. (Refer to the diagram below.)
Type B...The fan motor terminal is a lead wire type.
Refer to the diagram below to distinguish type A from type B.



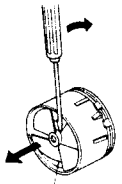


■ DISASSEMBLY INSTRUCTIONS

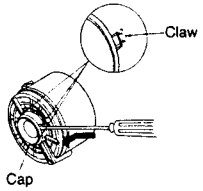
Ref. No. 14	Removal of the Fan Motor Ass'y (Type A)
Procedure 1→8→14	



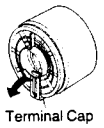
(Fig. 1)



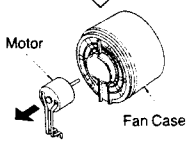
(Fig. 2)



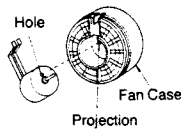
(Fig. 3)



(Fig. 4)



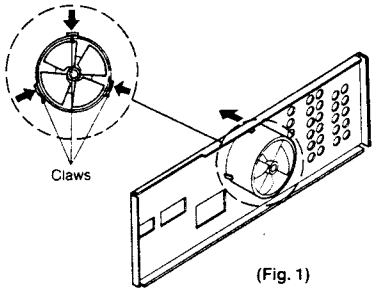
(Fig. 5)



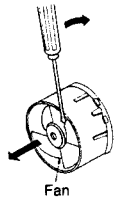
(Fig. 6)

1. Release the 3 claws. (See Fig. 1.)
2. Insert a screwdriver at the root of the fan. Force it out of the motor shaft. (See Fig. 2.)
3. Remove the cap by using ⊖ screwdriver. (See Fig. 3.)
4. Remove the terminal cap in the direction of arrow. (See Fig. 4.)
5. Remove the motor from the fan case. (See Fig. 5.)
6. When mounting the motor, align the fan casing's projection with the hole of the motor. (See Fig. 6.)

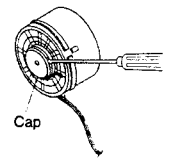
Ref. No. 14	Removal of the Fan Motor Ass'y (Type B)
Procedure 1→8→14	



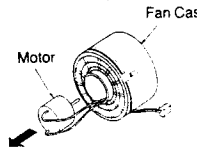
(Fig. 1)



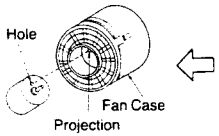
(Fig. 2)



(Fig. 3)



(Fig. 4)

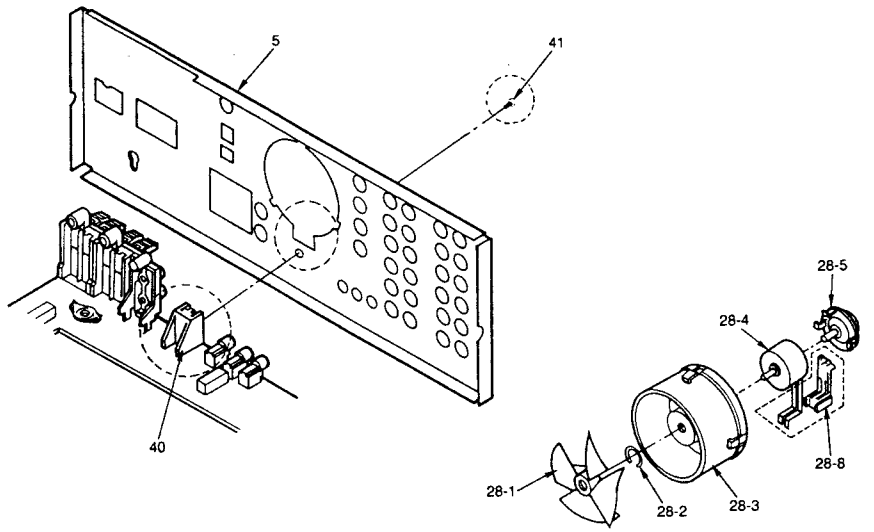


(Fig. 5)

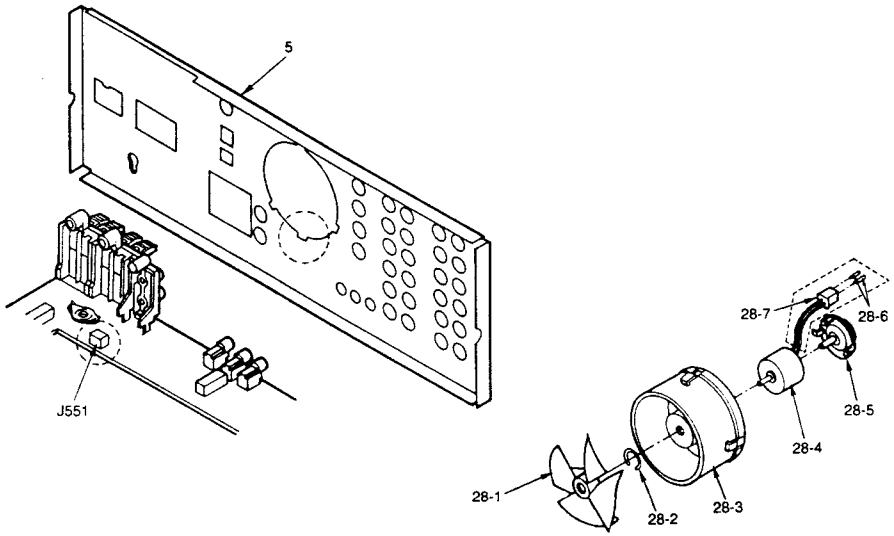
1. Remove the 1 connector (J551).
2. Release the 3 claws. (See Fig. 1.)
3. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft. (See Fig. 2.)
4. Remove the cap by using ⊖ screwdriver. (See Fig. 3.)
5. Remove the motor from the fan casing. (See Fig. 4.)
6. When mounting the motor fan, align the fan casing's projection with the hole of the motor. (See Fig. 5.)

■ CABINET PARTS LOCATION

(Type A)



(Type B)



Note: The different parts between type A and type B are enclosed by the dot lines in the above diagrams.

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■ BEFORE REPAIR

(1) Turn off the power supply. Using a 10Ω, 5 W resistor connect both ends of power supply capacitors (C711, C712, 3300 μF) in order to discharge the voltage.
(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 220 V/240 V.

Power supply voltage	AC 230 V	AC 240 V
Consumed current 50 Hz	198~463 mA	186~434 mA
Consumed current 60 Hz	192~448 mA	181~422 mA

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:
•No sound is heard when the power is switched ON.
•Sound stops during a performance.
The function of this circuitry is to prevent circuitry damage if, for example, the postive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:

1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

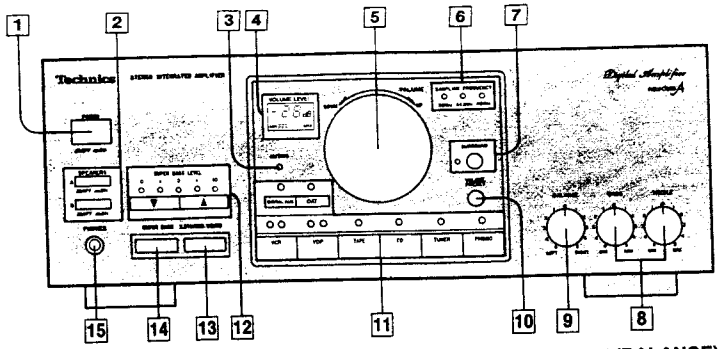
Note:
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON AGAIN.

■ ACCESSORIES

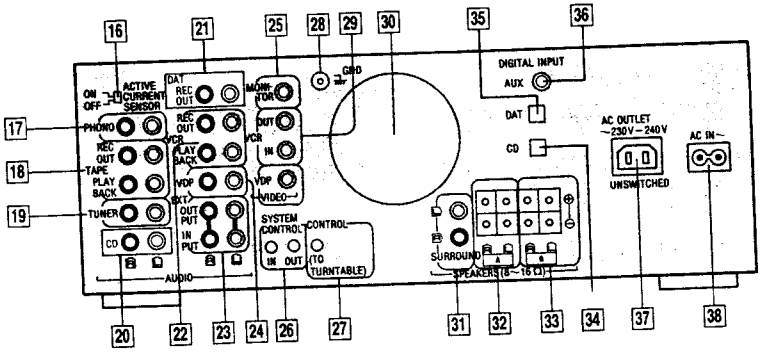
•AC power supply cord 1
Configuration of AC power supply cord differs according to area.

SJA187 .....For (E) (EG) area only
SJA188..... For (EB) area only.

■ LOCATION OF CONTROLS



1 Power switch (POWER)
2 Speaker selectors (SPEAKERS)
3 Muting indicator (MUTING)
4 Volume-level indicator (VOLUME LEVEL)
5 Volume control (VOLUME)
6 Sampling frequency indicators (SAMPLING FREQUENCY)
7 Surround-sound button/indicator (SURROUND)
8 Tone controls (BASS/TREBLE)
9 Balance control (BALANCE)
10 Volume preset button (VOLUME PRESET)
11 Input selectors/indicators
12 Super bass level control buttons/indicators (SUPER BASS LEVEL)
13 Super dynamic sound button/indicator (S. DYNAMIC SOUND)
14 Super bass button/indicator (SUPER BASS)
15 Headphones jack (PHONES)



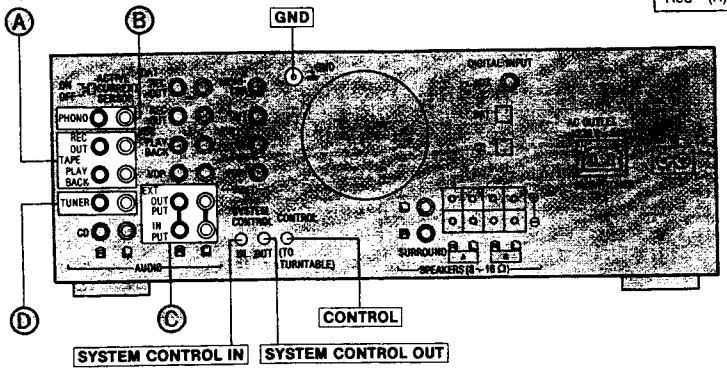
16 Active current sensor switch
17 Phono input terminal
18 Tape rec out/playback terminal
19 Tuner input terminal
20 CD input terminal
21 DAT recout terminal
22 VCR recout/playback terminal
23 EXT output/input terminal
24 VDP input terminal
25 MONITOR terminal
26 System control IN/OUT terminal
27 Control terminal (to turntable)
28 GND terminal
29 VCR out/in terminal
30 Cooling fan
31 Surround-sound speaker terminal
32 Main speaker A terminal
33 Main speaker B terminal
34 CD digital input terminal
35 DAT digital input terminal
36 AUX digital input terminal
37 AC outlet
38 AC inlet

■ CONNECTIONS

Make connections to each component in the system by using stereo connection cables (not included).

See the operating instructions of the tuner (ST-X902L) for details.

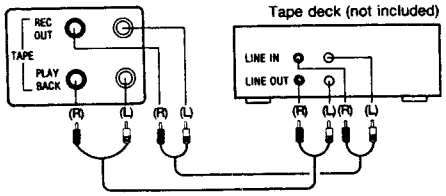
Stereo connection cable
White (L)
Red (R)



Connecting audio components

Ⓐ "TAPE" terminals

Connect a tape deck.

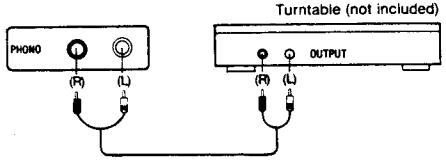


■ "SYSTEM CONTROL OUT" terminal

This terminal is used to connect a Technics tape deck with the "SYSTEM CONTROL IN" terminal.

Ⓑ "PHONO" terminals

Connect a turntable.



■ "GND" terminal

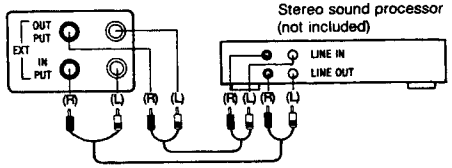
This terminal is for use with a turntable which has a ground wire.

■ "CONTROL" terminal

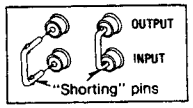
This terminal is used to connect a Technics turntable with the "REMOTE/SYNCHRO REC" terminal.

Ⓒ "EXT" terminals

Connect a stereo sound processor.

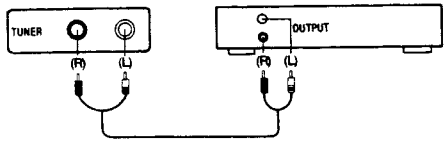


Note:
When these terminals are not in use, be sure to insert the "shorting" pins (included).



Ⓓ "TUNER" terminals

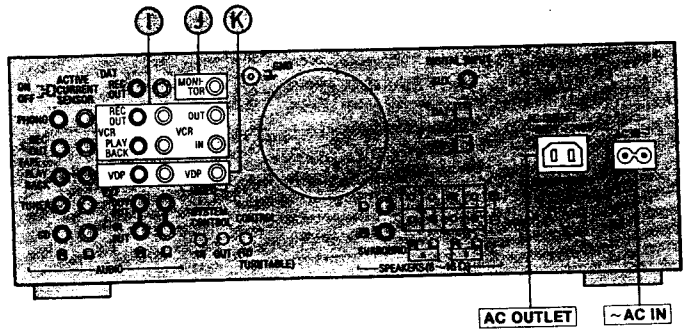
Connect a tuner.



■ "SYSTEM CONTROL IN" terminal

This terminal is used to connect a Technics tuner with the "SYSTEM CONTROL OUT" terminal.

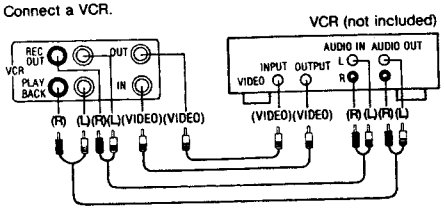
Make connections to each component by using stereo connection cables (not included) and video connection cables (not included).



Connecting video equipment

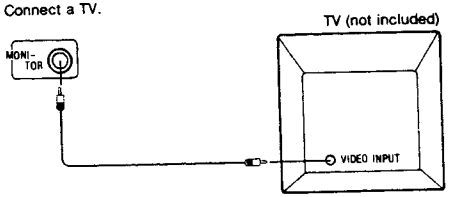
Ⓘ "VCR" terminals

Connect a VCR.



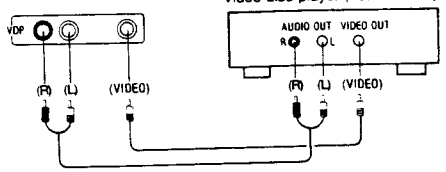
Ⓙ "MONITOR" terminal

Connect a TV.



Ⓚ "VDP" terminals

Connect a video disc player.



AC outlet ("AC OUTLET")

Do not connect video equipment (such as a TV, etc.) to the AC outlet of this unit. (This outlet is intended for audio equipment.) Do not exceed the indicated power ratings when connecting to this outlet.

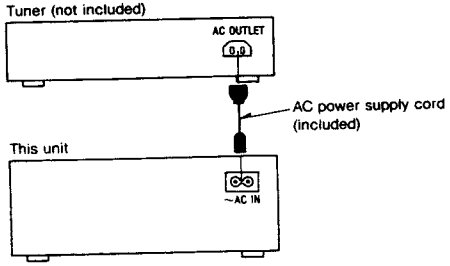
"UNSWITCHED" outlet:
Power is always available, regardless of power switch.
Audio equipment rated up to 60 W can be connected here.

Note:
The configuration of the AC outlet differs according to area.

AC power supply cord

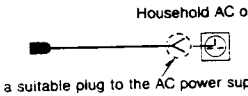
Connect the AC power supply cord (included) after all other cables and cords are connected.

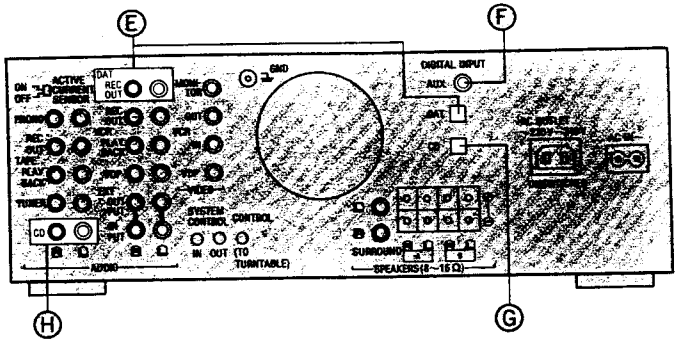
Notes:
- Configuration of the AC outlet and AC power supply cord differs according to area.
- If this unit is not to be connected with the tuner, the cord is to be connected to the household AC outlet.



For United Kingdom

Cut off and dispose of the plug and replace with a suitable plug.

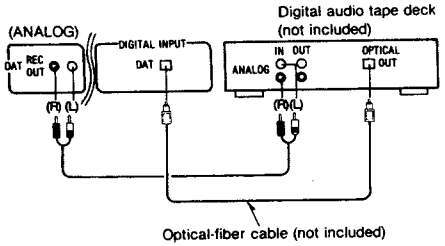




Connecting audio components

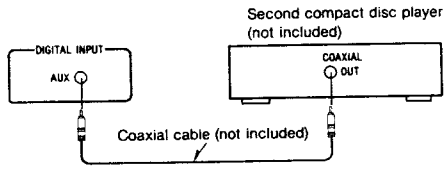
Ⓔ "DAT" terminals (ANALOG/DIGITAL)

Connect a digital audio tape deck.
Recordings can be made to the digital audio tape deck.



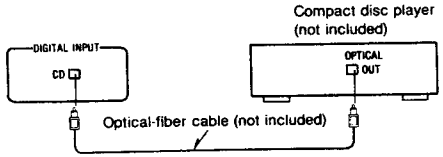
Ⓕ "AUX" terminal (DIGITAL)

Connect a second compact disc player, etc.



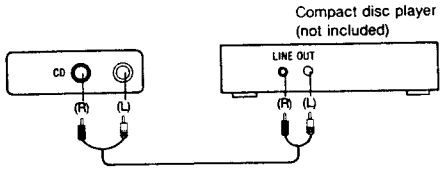
Ⓖ "CD" terminal (DIGITAL)

Connect a compact disc player.



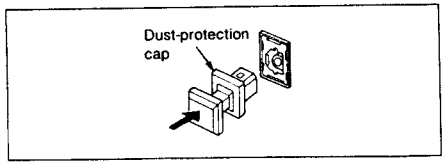
Ⓗ "CD" terminals (ANALOG)

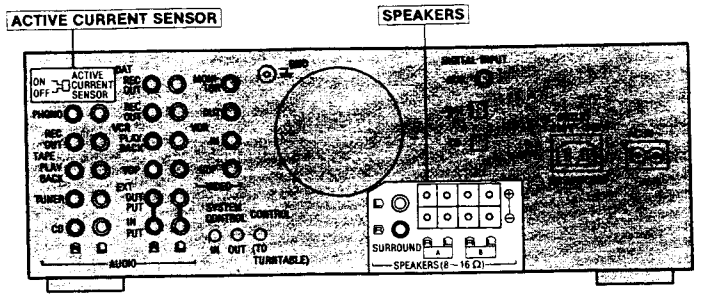
Connect a compact disc player.



■ "DIGITAL INPUT" (DAT, CD) terminals of this unit

These terminals are protected by dust-protection caps to avoid damage by dust, etc.
Remove the caps only when the "DIGITAL INPUT" terminals are to be used.
When these terminals are not being used, attach the caps as shown in the illustration at right.



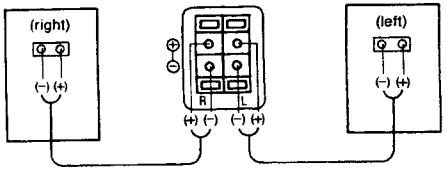


Connection of speaker systems

Three pairs of speaker systems (main, second, surround-sound) can be connected to this unit.
Speaker systems that can be connected to any of the speaker connection terminals of this unit are speaker systems with an impedance of 8 to 16 ohms.
Make connections to each speaker system by using speaker cords (not included).

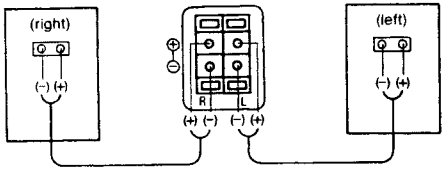
Main speaker systems (not included)

Connect to the "A" terminals.



Second speaker systems (not included)

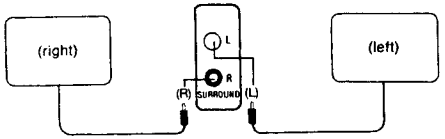
Connect to the "B" terminals.



Surround-sound speaker systems (not included)

Connect to the "SURROUND" terminals.

- Be sure to connect both speaker systems. If only one side is connected, no sound will be heard.



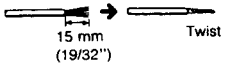
How to use the active current sensor

The selector is used to enjoy powerful super-bass sound.
ON: Switch ON when connecting the Technics system speakers (SU-X902: SB-CS90, SU-X502: SB-CS90/CS70).
OFF: Switch OFF when connecting speakers other than Technics system speakers.

Notes:
- When connecting speakers other than system speakers, sound from the speakers may not be heard if the selector is pressed ON, because the protecting circuit on the amplifier becomes active.
- The active current sensor activates only for the speaker systems connected to the "A" terminals.

To connect cords to terminals

① Strip off the outer covering, and twist the center conductor.

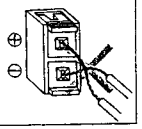


② Tilt the lever back and insert the cord.

③ Close the lever and pull the cord gently to be sure that it is secure.

Note:
Be sure to only connect positive (+) cords to positive (+) terminals, and negative (–) cords to negative (–) terminals.

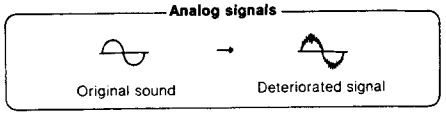
Note:
To prevent damage to circuitry, never short-circuit the plus (+) and minus (–) speaker wire.

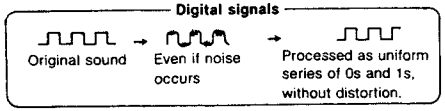


■ DIGITALIZATION OF AUDIO SIGNALS

■Why digitize?

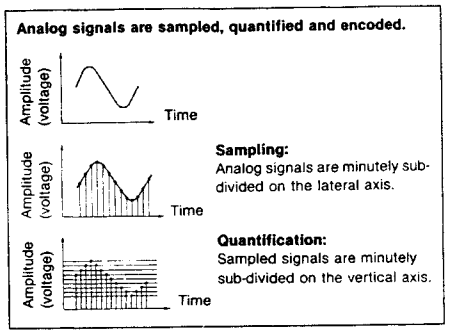
- Audio signals are analog signals with a continuous form.
- When these audio signals are subjected to repeated electronic processing (recording, playback, etc.), they become noisy and distortion occurs, thus resulting in deterioration of the sound quality.
- When these signals are first digitized before processing, they have the following advantages that prevent deterioration of the sound quality:
  ① Resistance to noise
  ② Extremely low distortion
  ③ Flat, even frequency response

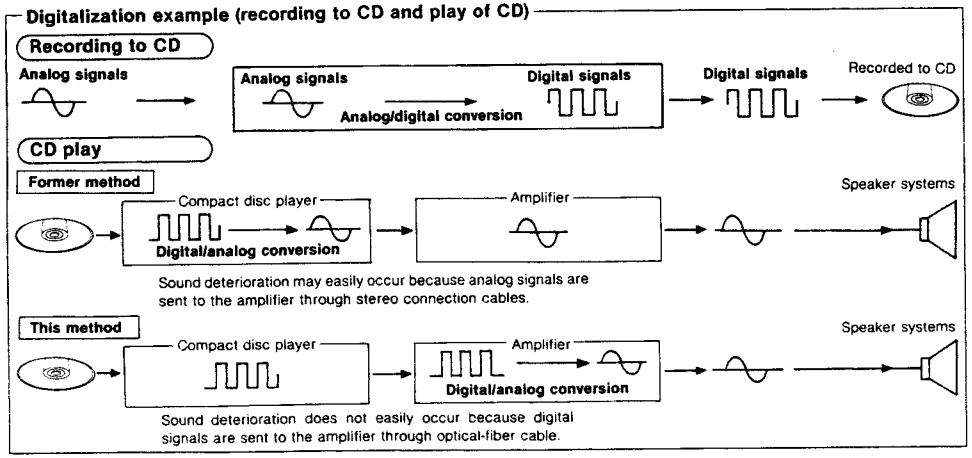




■How signals are digitized

If it is known to what degree of minuteness the human ear can distinguish sounds, it is then possible, by using that data as the standard reference, to digitize them by dividing analog signals into minute pieces, after which they can be transmitted with a high degree of precision, and thereafter recorded and played back in the digitized format.


Analog signals are sampled, quantified and encoded.
Amplitude (voltage)
Time
Sampling:
Analog signals are minutely sub-divided on the lateral axis.
Quantification:
Sampled signals are minutely sub-divided on the vertical axis.



What the sampling frequency is

The sampling frequency expresses the degree of minuteness to which signals can be cut, relative to a certain specified time interval, during sampling.
For compact disc sound:
Analog signals are cut 44,100 times (i.e., 44.1 kHz) during one second.
This 44.1 kHz is, therefore, the sampling frequency for compact disc sound.

What analog/digital conversion is

Audio signals (analog signals) are taken out (sampled) at certain fixed time intervals. The points at which this sampling frequency occurs are digitally encoded and converted to digital signals.

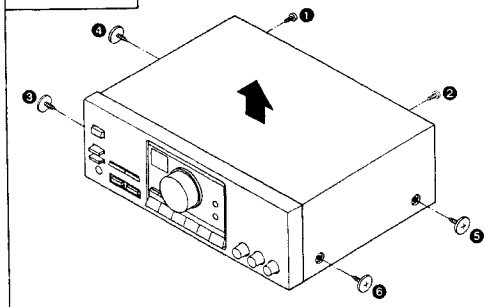
What digital/analog conversion is

Each sampling frequency point is returned (converted) to voltage, thus converting digital signals to the analog signals that we can hear.

■ DISASSEMBLY INSTRUCTIONS

Ref. No. 1 — **Removal of the Cabinet**

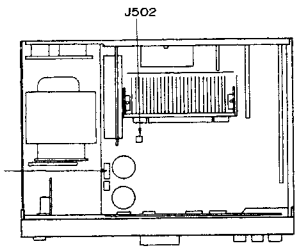
Procedure 1



1. Remove the 6 screws (❶~❻).
2. Remove the cabinet in the direction of the arrow.

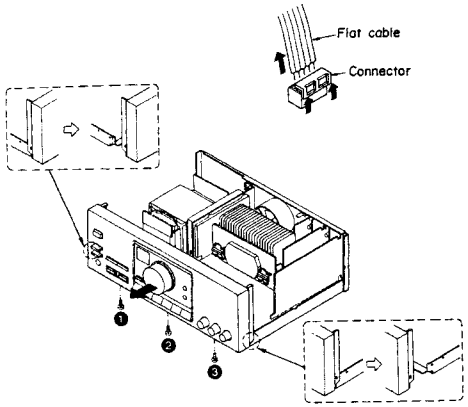
Ref. No. 2 — **Removal of the Front Panel Unit**

Procedure 1→2



1. Remove the 2 connectors (J501, J502).

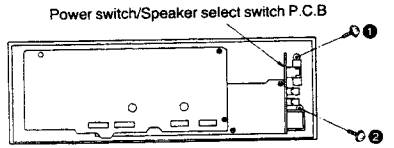
—Removal of the Connector—



2. Remove the 3 screws (❶~❸).
3. Remove the front panel unit in the direction of the arrow.

Ref. No. 3 — **Removal of the Power Switch/Speaker Select Switch P.C.B.**

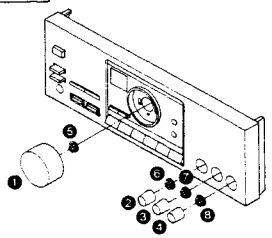
Procedure 1→2→3



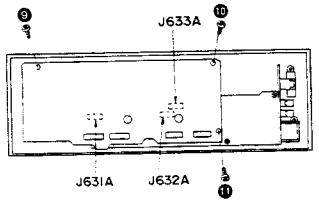
•Remove the 2 screws (❶, ❷).

Ref. No. 4 — **Removal of FL Drive P.C.B.**

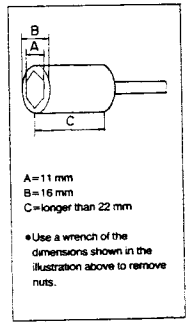
Procedure 1→2→4



1. Remove the 4 knobs (❶~❹).
2. Remove the 4 nuts (❺~❽).

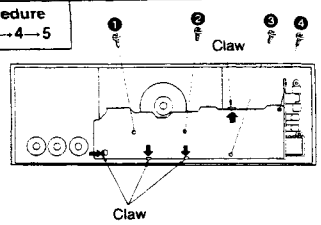


3. Remove the 3 screws (❾~⓫).
4. Remove the 3 connectors (J631A, J632A, J633A).



Ref. No. 5	Removal of the Operation P.C.B.

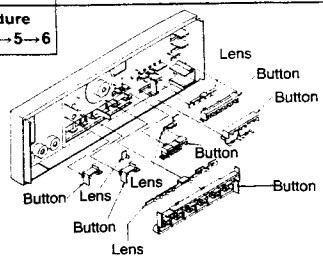
Procedure 1→2→4→5



1. Remove the 4 screws (❶~❹).
2. Release the 4 claws in the direction of the arrow.

Ref. No. 6	Removal of the Operation Buttons

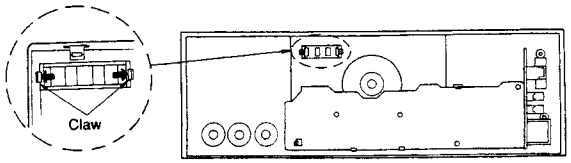
Procedure 1→2→4→5→6



●Pull out the operation buttons and lens.

Ref. No. 7	Removal of the Sampling Frequency Indicator Lens

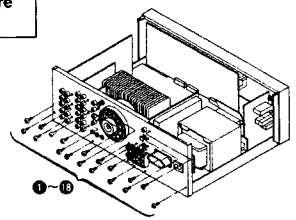
Procedure 1→2→4→7



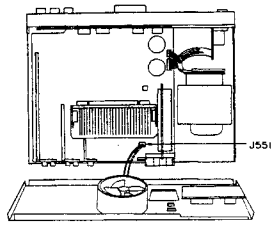
●Release the 2 claws.

Ref. No. 8	Removal of the Rear Panel

Procedure 1→8



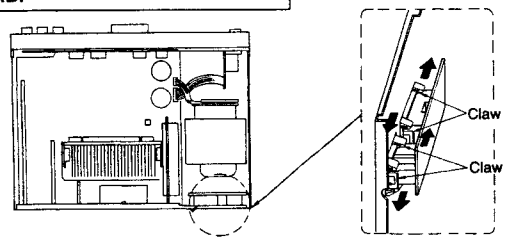
1. Remove the 18 screws (❶~⓲).



2. Release the connector (J551).

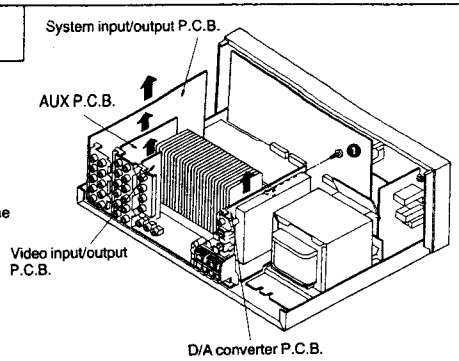
Ref. No. 9	Removal of the AC OUTLET/AC IN P.C.B.

Procedure 1→9



●Release the 4 claws.

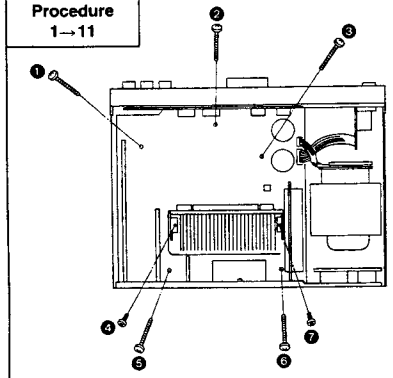
Ref. No. 10	Removal of the P.C.B.s
Procedure 1→8→10	



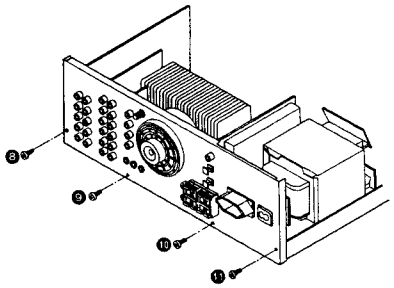
■ **Removal of the D/A converter P.C.B.**
1. Remove the screw (❶).
2. Remove the D/A converter P.C.B. in the direction of the arrow.

■ Removal of the other P.C.B.
•Remove the P.C.B. in the direction of the arrow.

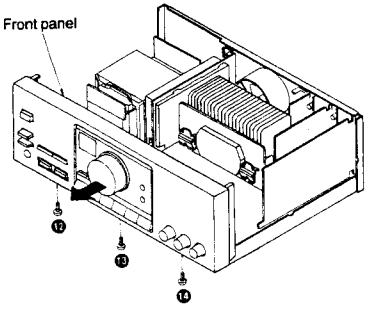
Ref. No. 11	Check of the main P.C.B.
Procedure 1→11	



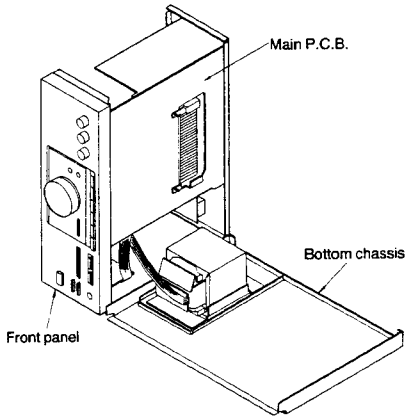
1. Remove the 7 screws (❶~❼).



2. Remove the 4 screws (❽~⓫).



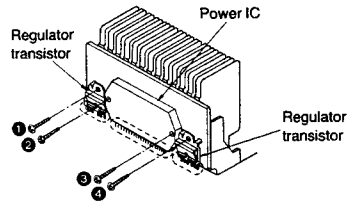
3. Remove the 3 screws (⓬~⓮).
4. Remove the front panel unit in the direction of the arrow.
·Connect 2 flat cables (J501A, J502).



5. Remove the bottom chassis.
6. Reinstall the front panel unit to the main P.C.B.

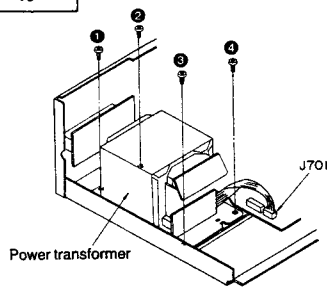
Ref. No. 12	Removal of the Power IC and Regulator Transistor
Procedure 1→11→12	

1. Unsolder the power IC or regulator transistor.
2. Remove the 4 screws (❶~❹).



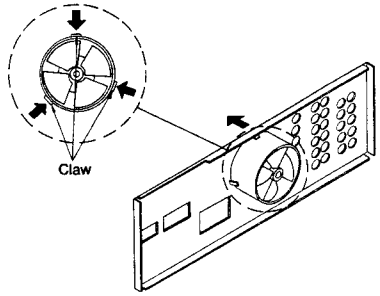
Note: When mounting the power IC, or regulator transistor apply silicon terminal compound (SZZ0L15) to the rear of the power IC or regulator transistor.

Ref. No. 13	Removal of the Power Transformer
Procedure 1→13	

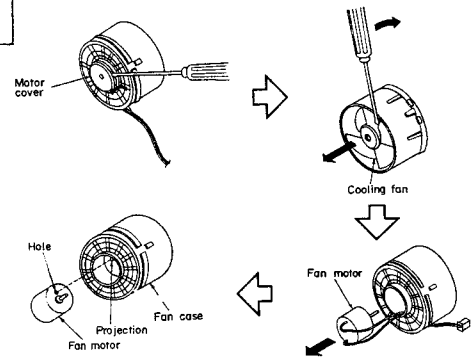


1. Remove the 1 flat cable (J701).
2. Remove the 4 screws (❶~❹).

Ref. No. 14	Removal of the Fan Motor
Procedure 1→8→14	



1. Remove the 1 connector (J209).
2. Release the 3 claws.

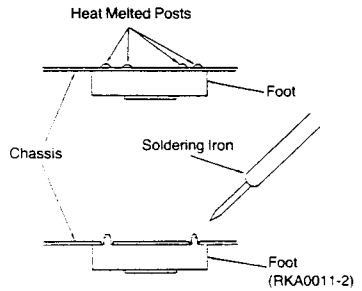


3. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft.
4. Remove the motor cover by used ⊖ screwdriver.
5. Remove the motor from the fan casing.
6. When mounting the motor fan, align the fan casing's projection with the hole of the fan motor.

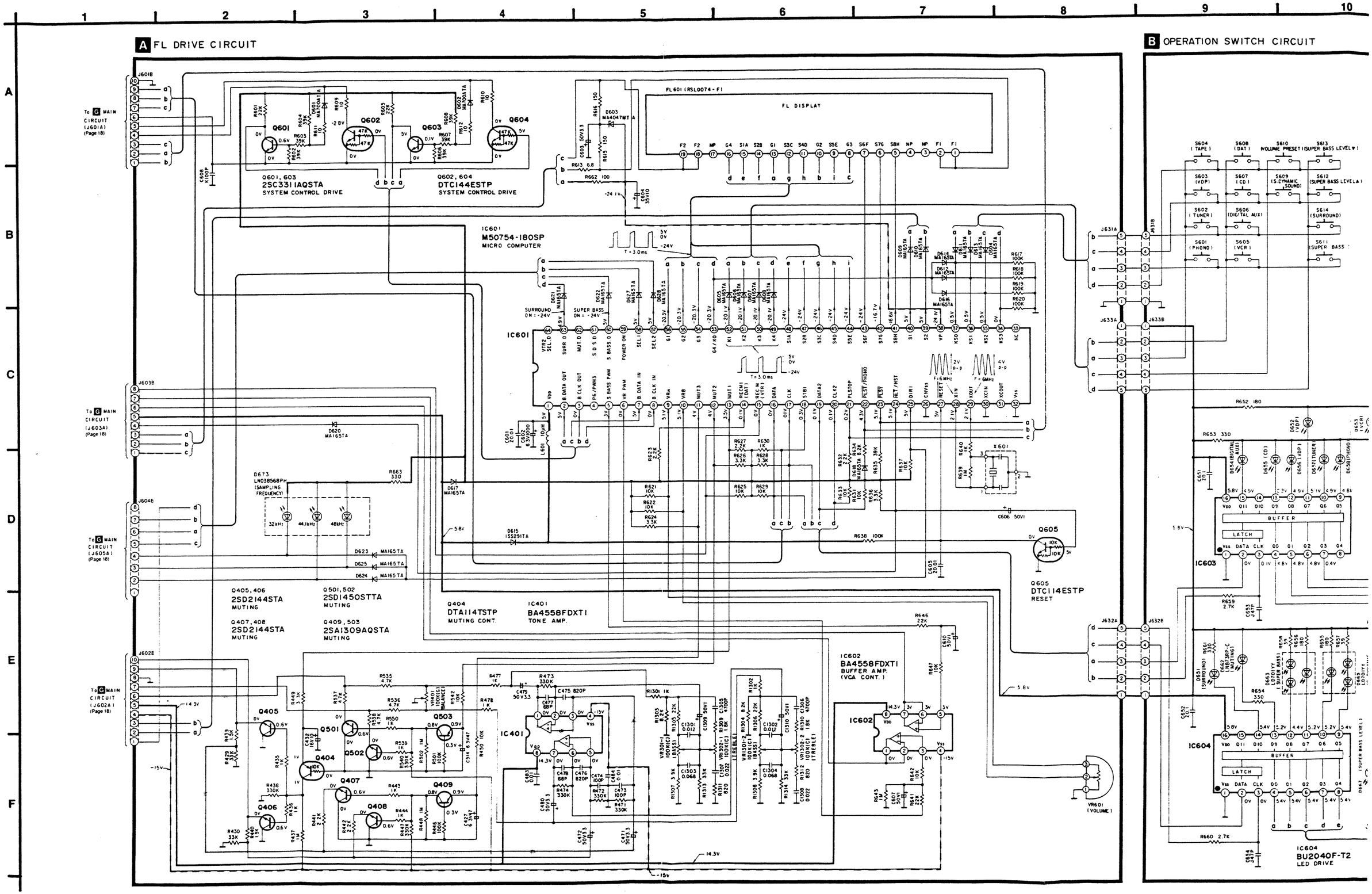
"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

•Replacement of the Foot.

1. Remove the 4 heat melted posts on the chassis with a pair of nippers or similar tool.
2. To replace the foot (RKA0011-2) on the chassis, melt the 4 posts with a soldering iron.

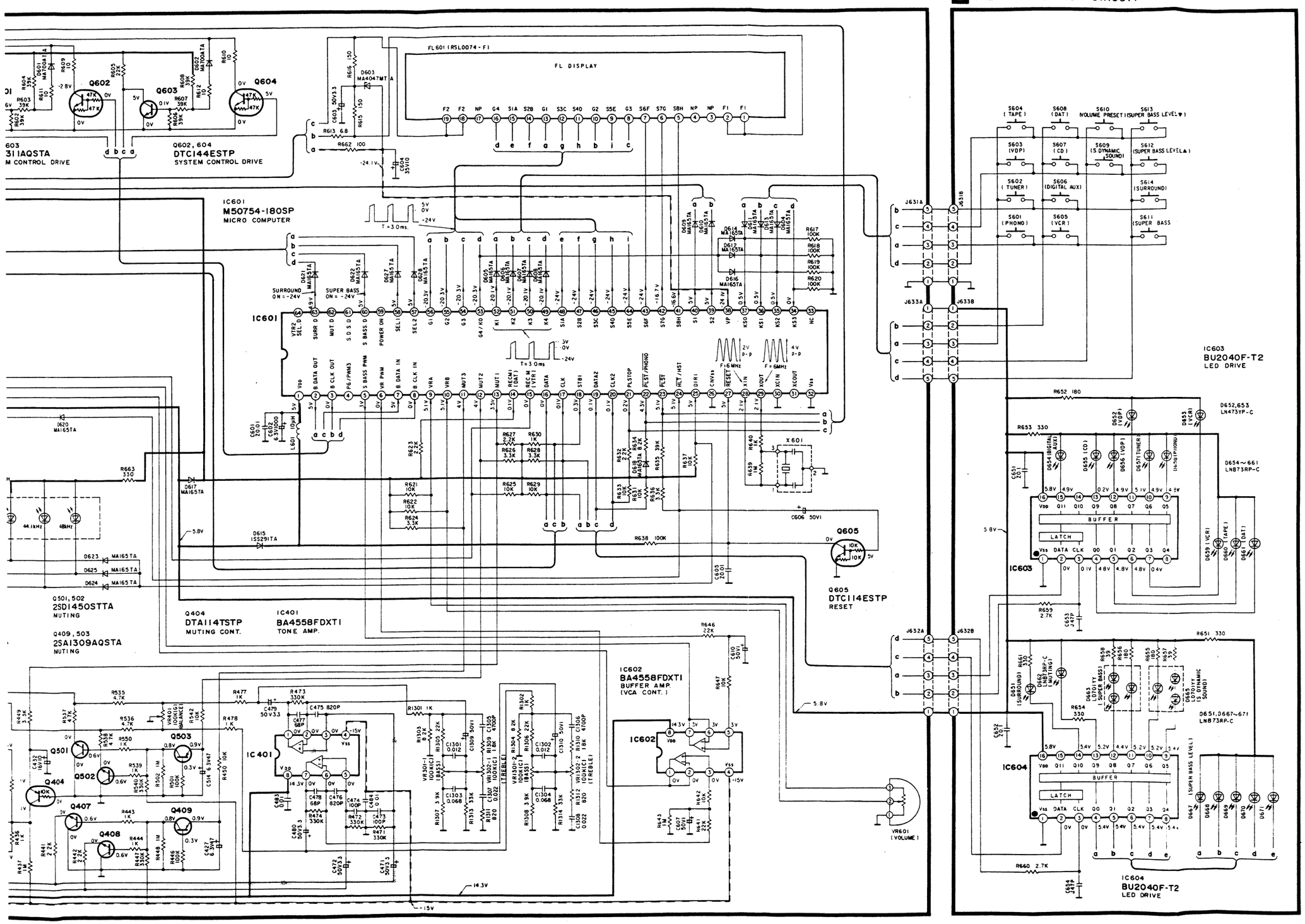


■ SCHEMATIC DIAGRAM

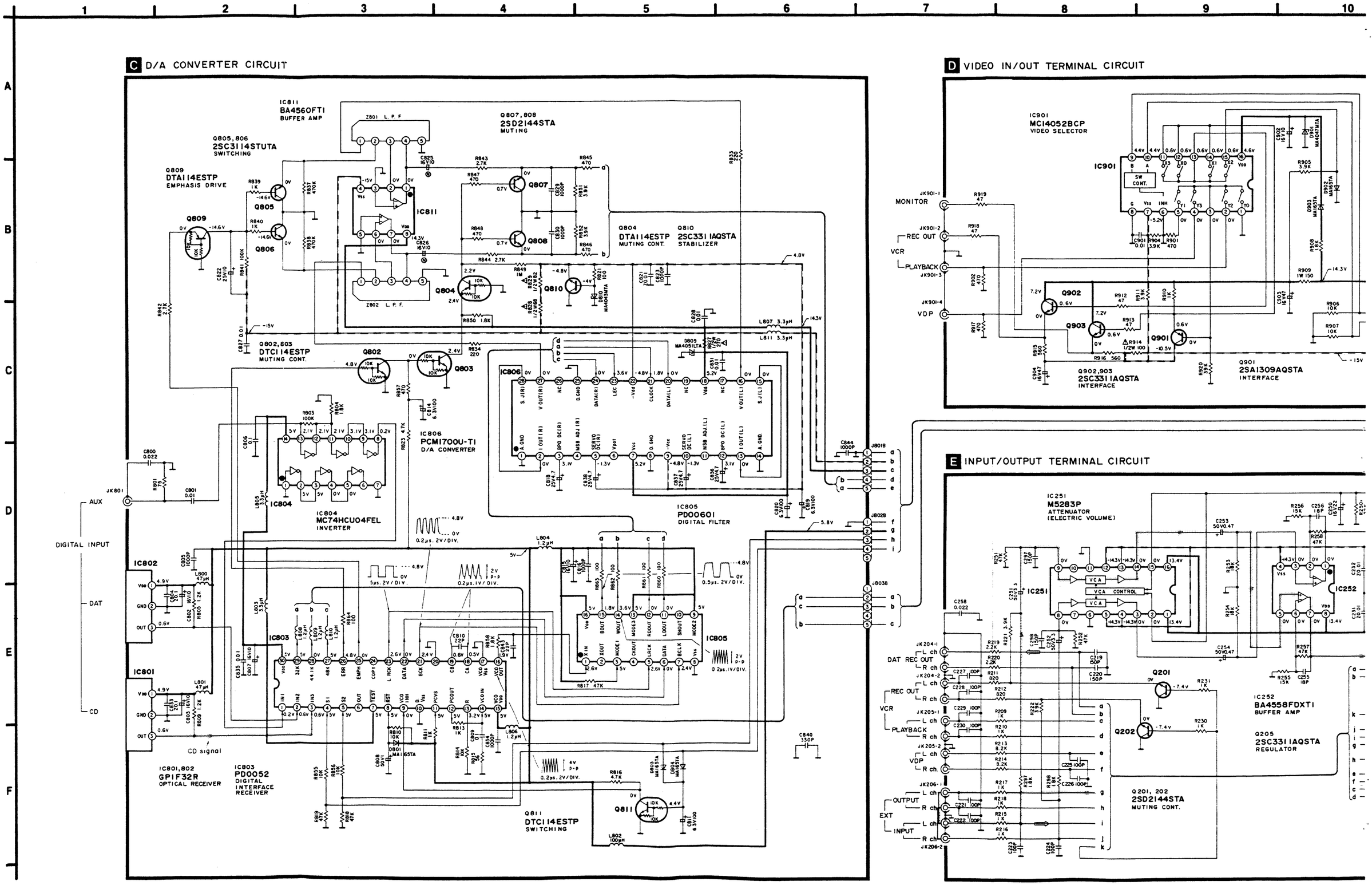


3 4 5 6 7 8 9 10 11 12

B OPERATION SWITCH CIRCUIT

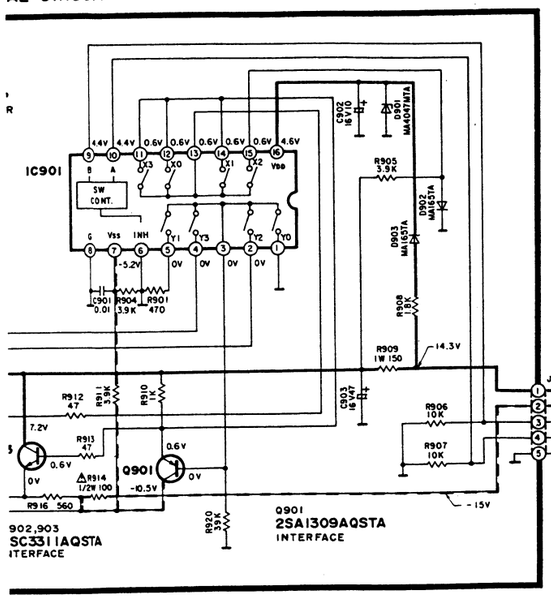


■ SCHEMATIC DIAGRAM



9 10 11 12 13 14 15 16 17 18

AL CIRCUIT



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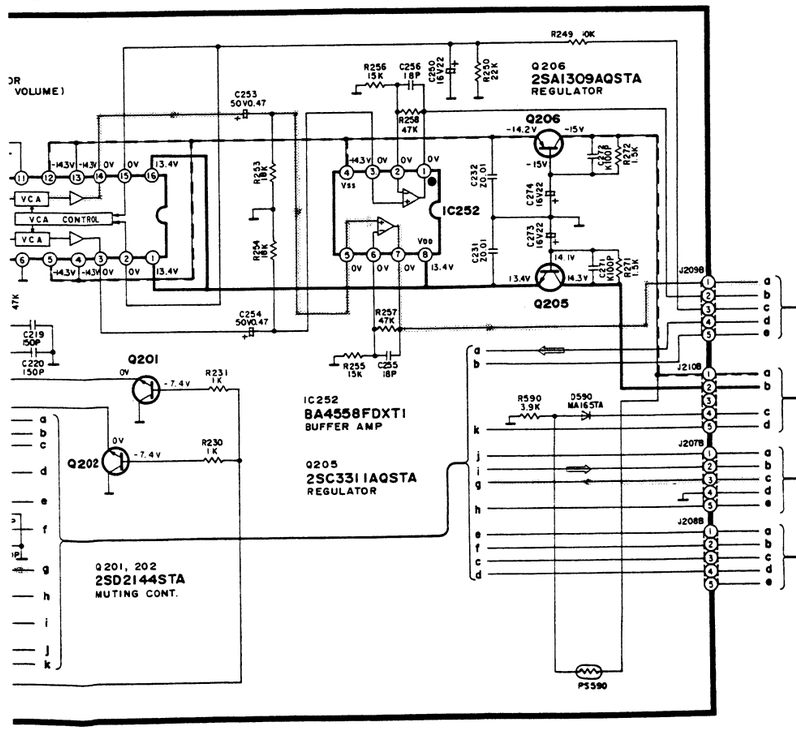
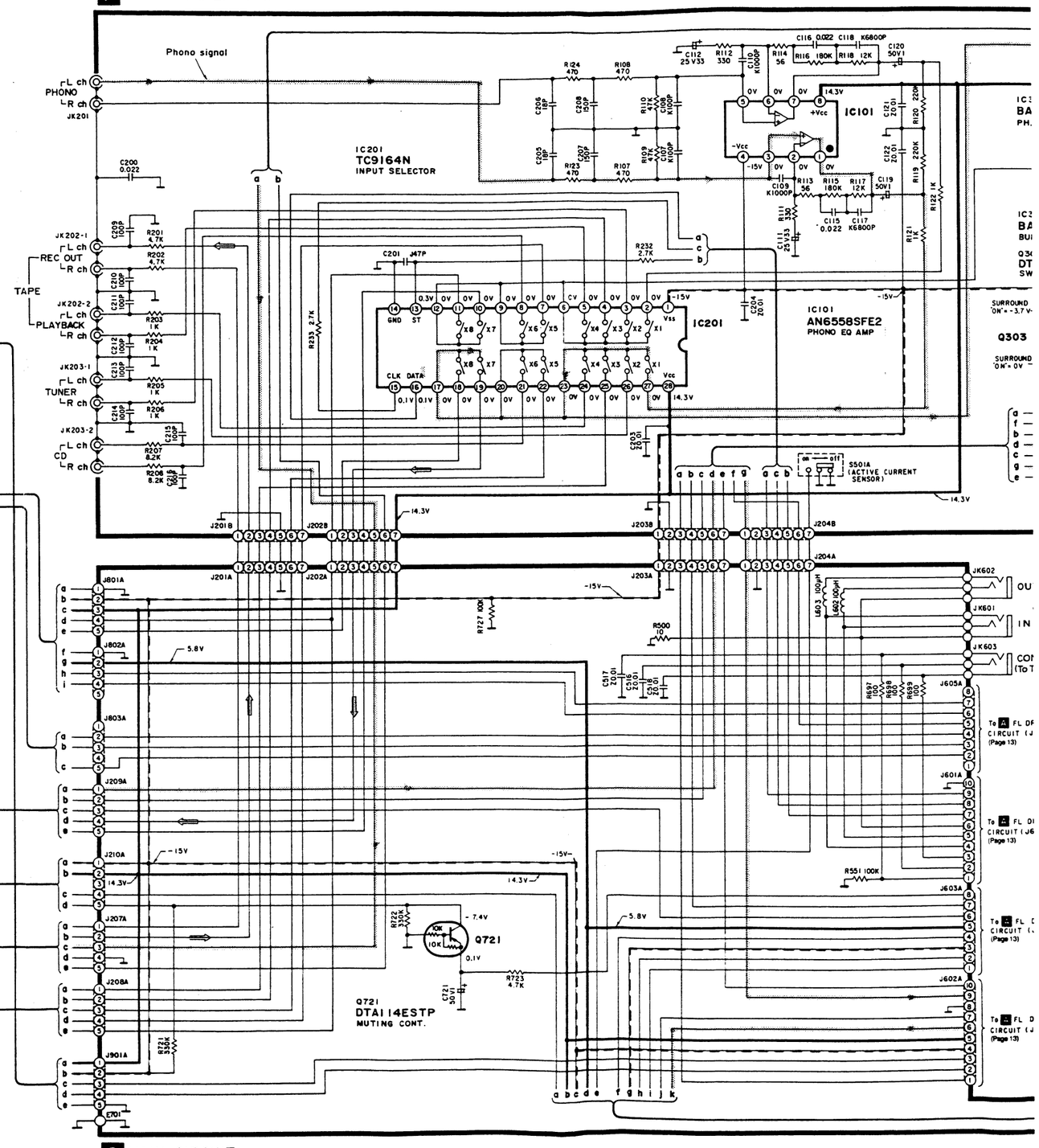
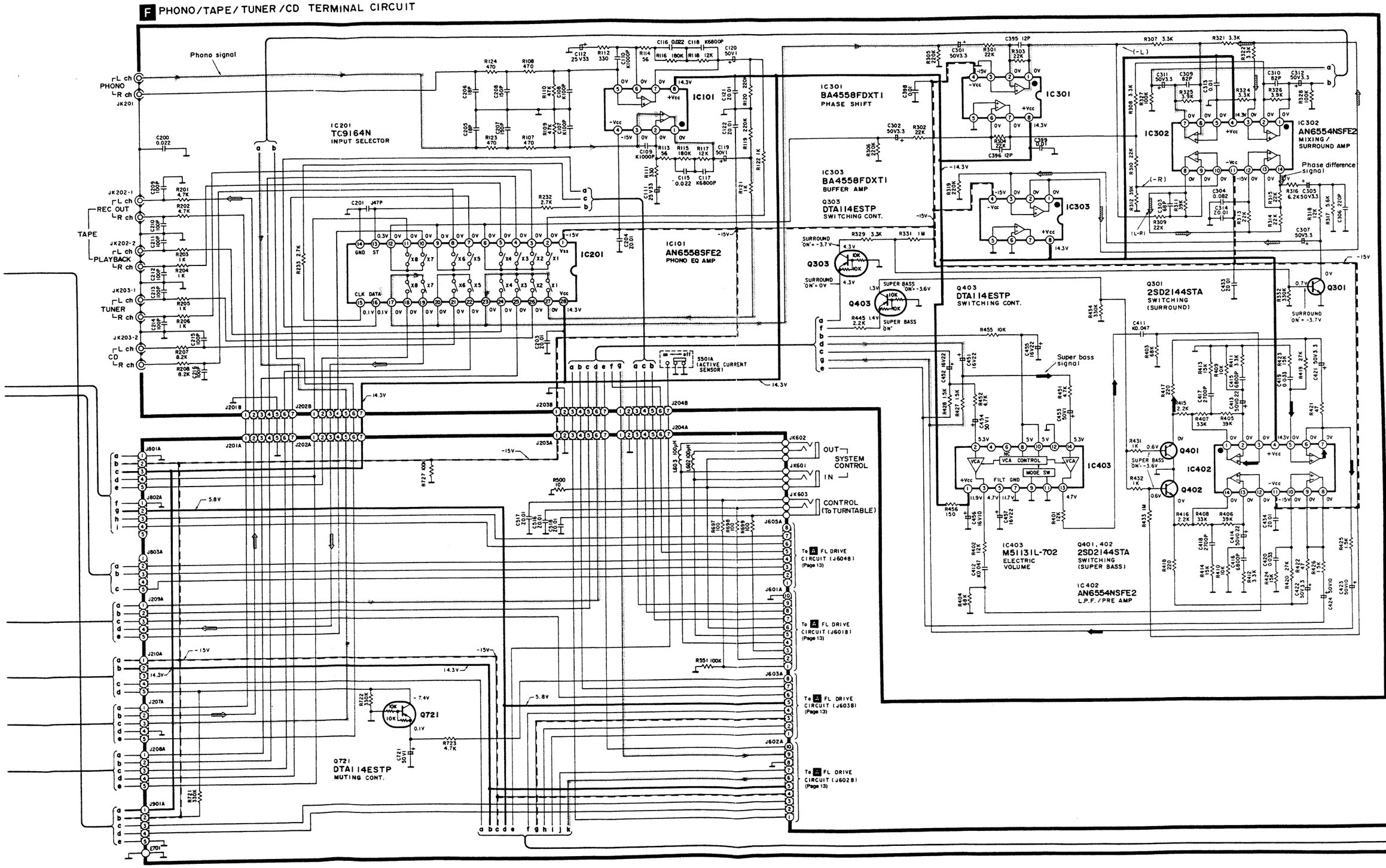


F PHONO/TAPE/TUNER/CD TERMINAL CIRCUIT



13 14 15 16 17 18 19 20 21 22

F PHONO/TAPE/TUNER/CD TERMINAL CIRCUIT


Phono signal
L ch PHONO R ch JK201
IC201 TC9164N INPUT SELECTOR
IC101 AN6558SFE2 PHONO EQ AMP
IC301 BA4558FDXT1 PHASE SHIFT
IC303 BA4558FDXT1 BUFFER AMP
Q303 DTA114ESTP SWITCHING CONT.
Q403 DTA114ESTP SWITCHING CONT.
Q301 2SD2144STA SWITCHING (SURROUND)
IC302 AN6554NSFE2 MIXING / SURROUND AMP
IC403 M51131L-702 ELECTRIC VOLUME
Q401, 402 2SD2144STA SWITCHING (SUPER BASS)
IC402 AN6554NSFE2 L.P.F./PRE AMP
Q721 DTA114ESTP MUTING CONT.
S501A (ACTIVE CURRENT SENSOR)
TAPE REC OUT / PLAYBACK
TUNER
CD
OUT SYSTEM CONTROL IN
CONTROL (To TURNTABLE)
Phase difference signal
Super bass signal
To A FL DRIVE CIRCUIT (J6048) (Page 13)
To A FL DRIVE CIRCUIT (J6018) (Page 13)
To A FL DRIVE CIRCUIT (J6038) (Page 13)
To A FL DRIVE CIRCUIT (J6028) (Page 13)

G MAIN CIRCUIT

23 24 25 26 27 28 29 30 31 32

H POWER SWITCH/HEADPHONES CIRCUIT

IC501
SV13205
POWER AMP

Q510
2SA992EFPTA
RELAY DRIVE

IC504
M5218AP
BUFFER AMP

Q1551, 1552
2SC3312RSTA
CURRENT STABILIZER

Q1501, 1503
2SA1309AQSTA
BIAS CONTROL

IC503
TC4066B
SWITCHING

Q1505
DTC114ESTP
A.C.S. CONTROL

Q1506
DTA114ESTP
A.C.S. CONTROL

Q702
2SB621AQRSTA
REGULATOR

Q1502, 1504
2SA1309AQSTA
BIAS CONTROL

IC502
AN6554F
SIGNAL LEVEL DET.

Q705
2SD1761DEF
REGULATOR

Q701
UN4215TA
STABILIZER

Q703
2SD1761DEF
REGULATOR

Q704
2SB1187DEF
REGULATOR

Q706
2SD1761DEF
REGULATOR

Q504
2SC3311AQSTA
MOTOR DRIVE

Q505
2SA1309AQSTA
MOTOR DRIVE

HEADPHONES

(SPEAKERS)

SPEAKERS
(8~16Ω)

L ch
R ch
SURROUND

MOTOR

JK902
AC OUTLET
(UNSWITCHED)

JK903
AC IN
(230V~ (E,EG)
230~240V~ (EB)
50/60Hz)

I AC IN/
AC OUTLET
CIRCUIT

Notes: (This schematic diagram may be modified at any time with the development of new technology.)

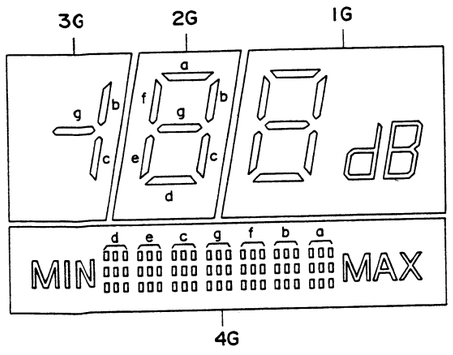
- •S501A : Active current sensor switch in "OFF" position.
- •S501 : Speaker ON/OFF switch.
  (S501-1: SPEAKER A in "ON" position
  S501-2: SPEAKER B in "OFF" position)
- •S601 : Turntable input switch. (PHONO)
- •S602 : Tuner input switch. (TUNER)
- •S603 : Video disc player input switch. (VDP)
- •S604 : Tape deck input switch. (TAPE)
- •S605 : Video cassette recorder input switch. (VCR)
- •S606 : Digital AUX input switch. (DIGITAL AUX)
- •S607 : CD input switch. (CD)
- •S608 : Digital audio tape deck input switch. (DAT)
- •S609 : Super dynamic sound switch. (S. DYNAMIC SOUND)
- •S610 : Volume preset switch. (VOLUME PRESET)
- •S611 : Super bass switch. (SUPER BASS)
- •S612 : Super bass level control switch. (SUPER BASS LEVEL ▲)
- •S613 : Super bass level control switch. (SUPER BASS LEVEL ▼)
- •S614 : Surround-sound switch. (SURROUND)
- •S701 : Power switch. (POWER)

CD signal (Lch), Phono signal (Lch)
Positive voltage lines (+)
Negative voltage lines (−)
Super bass signal
Phase difference signal
Recording signal

- •Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- •Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

•Caution!
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care furing repair.
•Cover the parts boxes made of plastics with aluminum foil.
•Ground the soldering iron.
•Put a conductive mat on the work table.
•Do not touch the legs of IC or LSI with the fingers directly.

■ DESCRIPTION OF FL PANEL



	4G	3G	2G	1G
P1	a	–	a	a
P2	b	b	b	b
P3	c	c	c	c
P4	d	–	d	d
P5	e	–	e	e
P6	f	–	f	f
P7	g	g	g	g
P8	MIN - MAX	–	–	dB

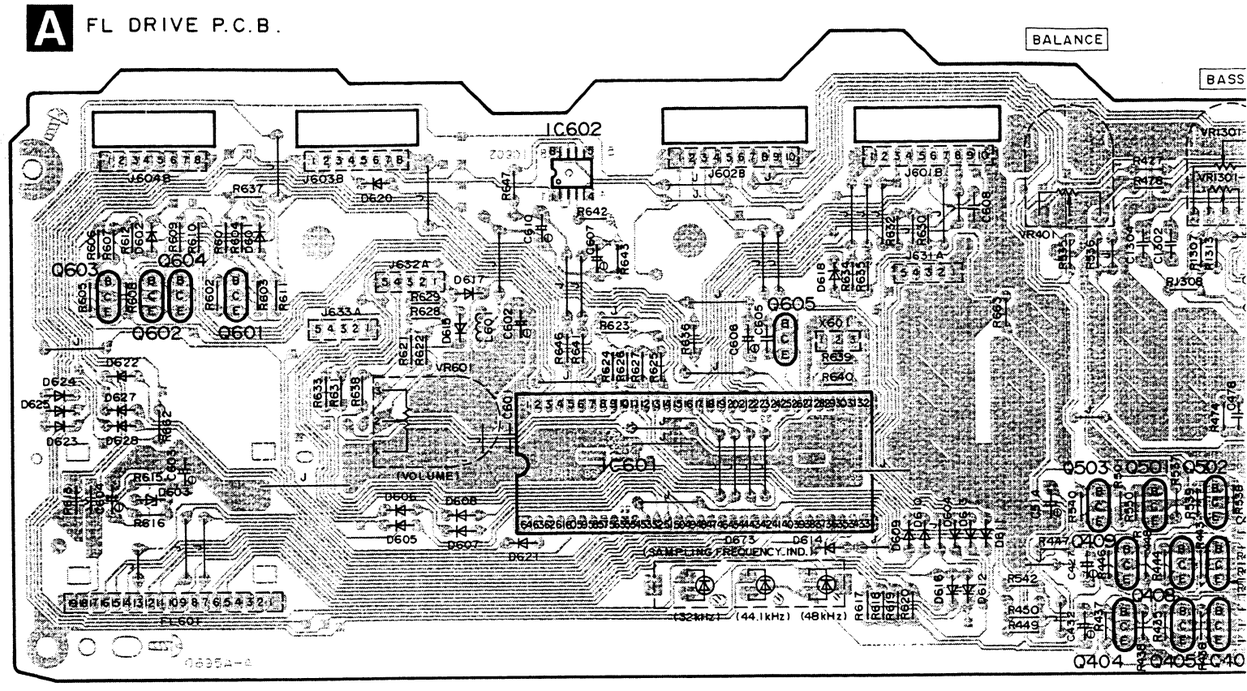
PIN CONNECTION

PIN NO.	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	F2	F2	NP	4G	P1	P2	3G	P3	P4	2G	P5	1G	P6	P7	P8	NP	NP	F1	F1

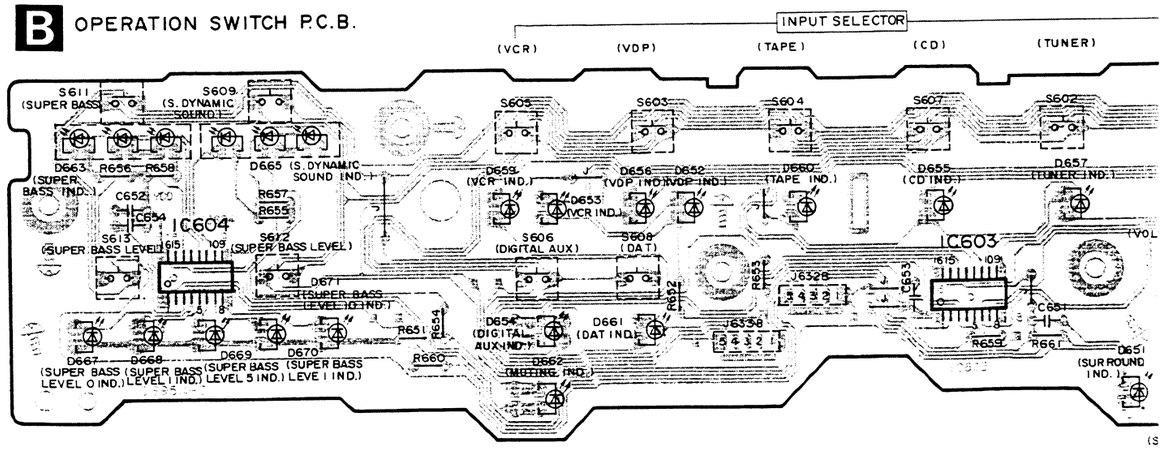
Notes:
F1, F2 ..... Filament
NP ..... No pin
1G~4G ..... Grid

■ CIRCUIT BOARD DIAGRAM

A FL DRIVE P.C.B.



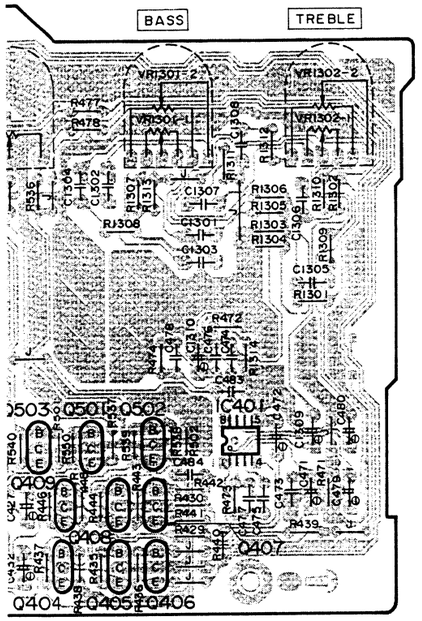
B OPERATION SWITCH P.C.B.



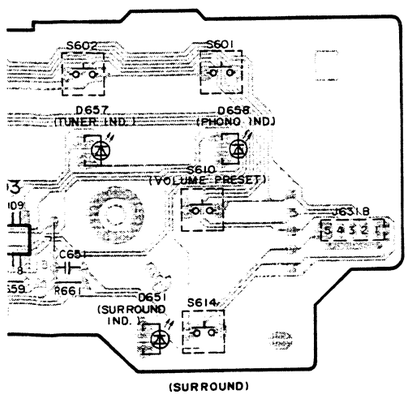
6 7 8 9 10 11 12 13 14

ANCE

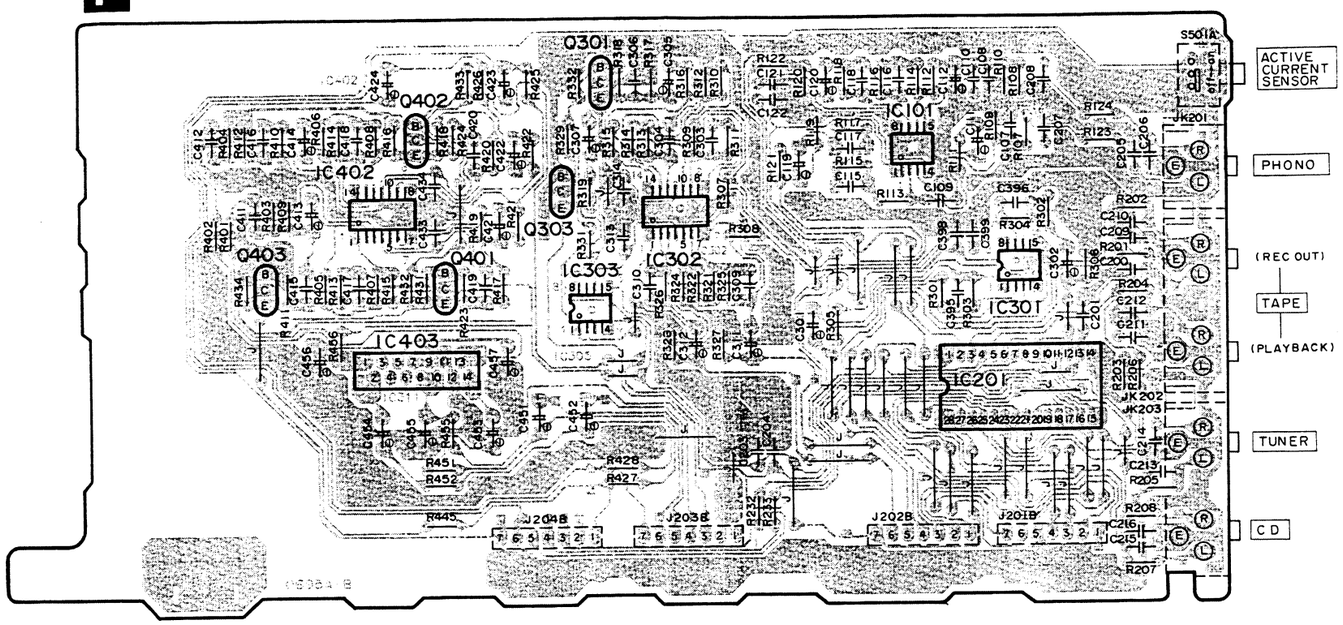
BASS TREBLE



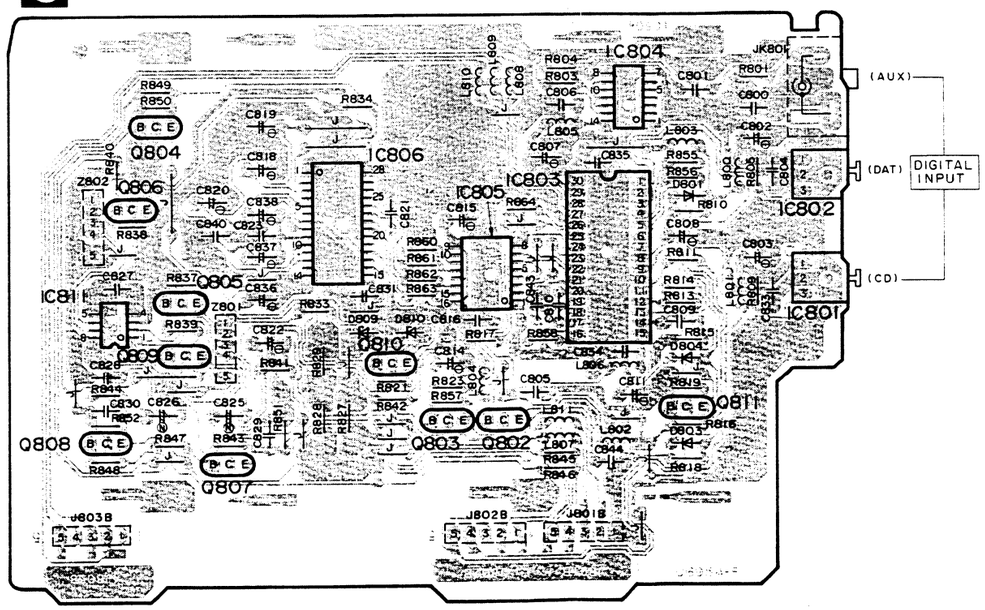
(TUNER) (PHONO)



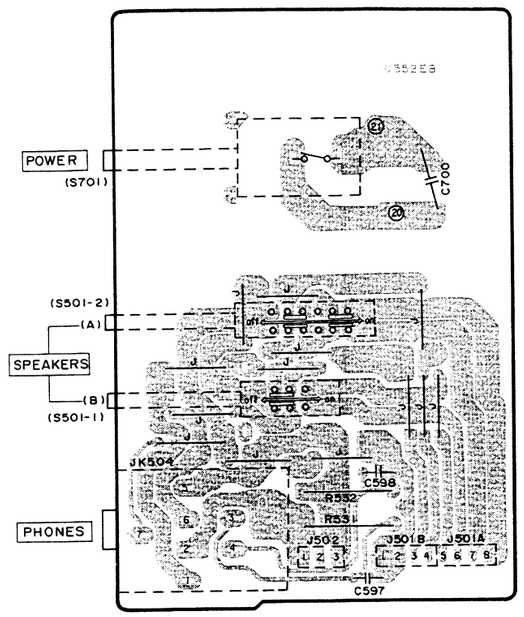
F PHONO/TAPE/TUNER/CD TERMINAL P.C.B.



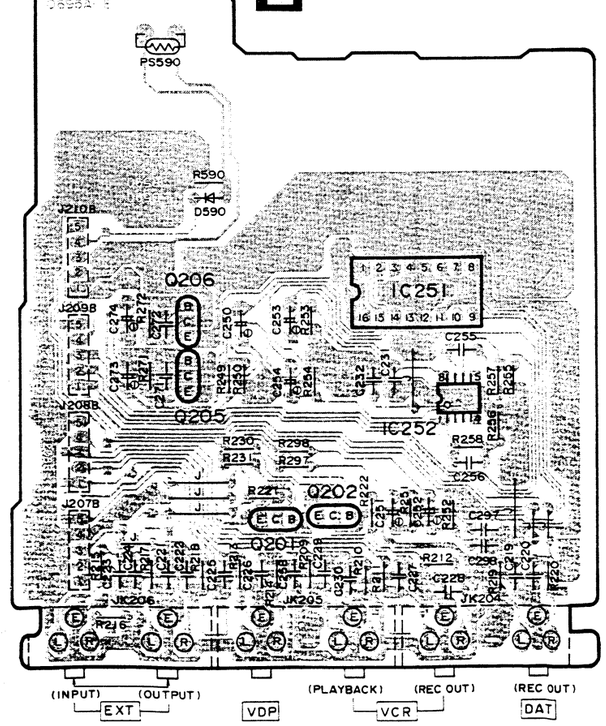
C D/A CONVERTER P.C.B.



H POWER SWITCH/HEADPHONES P.C.B.



E INPUT/OUTPUT TERMINAL P.C.B.

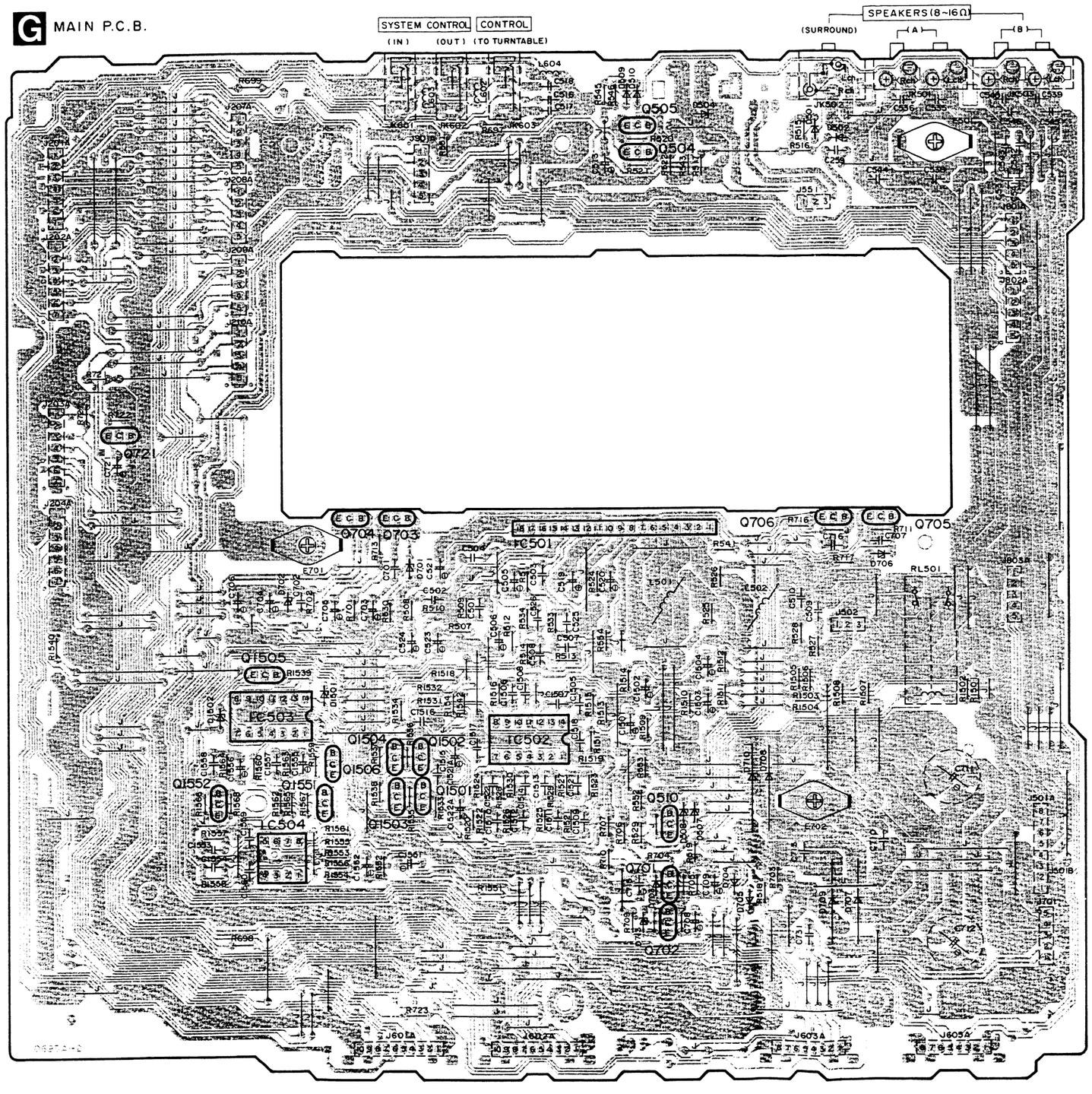


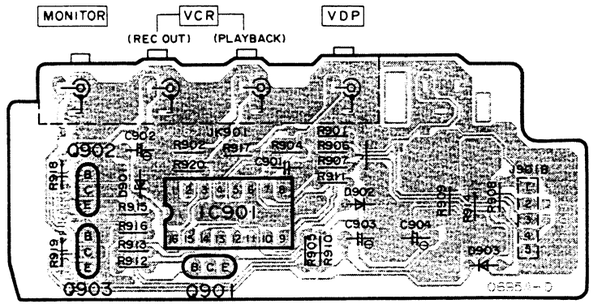
■ CIRCUIT BOARD DIAGRAM

1 2 3 4 5 6 7 8 9 10

A B C D E F

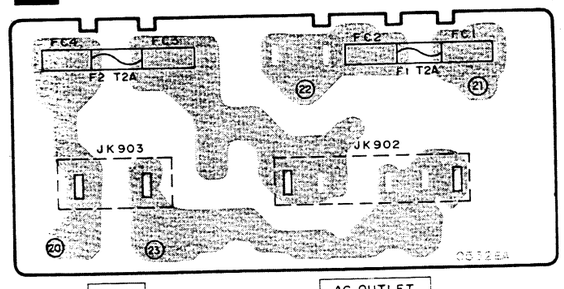
G MAIN P.C.B.





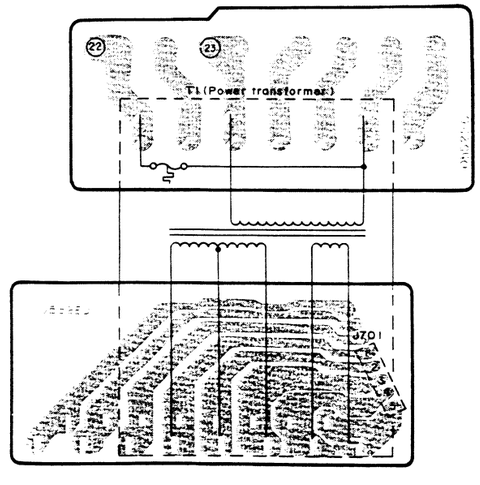
D VIDEO IN/OUT TERMINAL P.C.B.

I AC IN/AC OUTLET P.C.B.



AC IN
(230V ····· (E, EG)
230~240V ····· (EB)
50/60Hz)

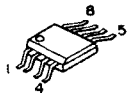
AC OUTLET
(UNSWITCHED)



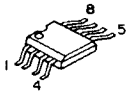
11 12 13 14

■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

AN6558SFE2



BA4558FDXT1
BA4560FT1



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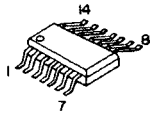
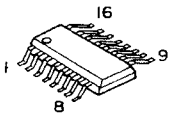


BU2040F-T2
MC74HCU04FEL



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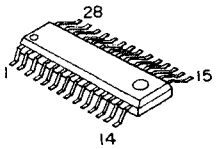
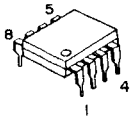


M5218AP



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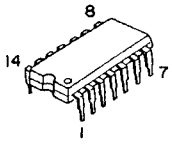
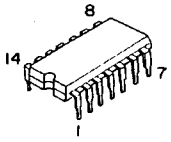


TC4066B



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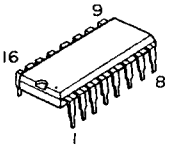

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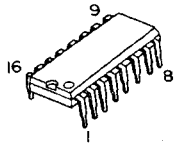

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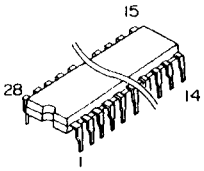
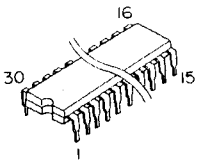


PD0052



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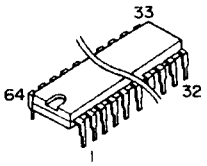
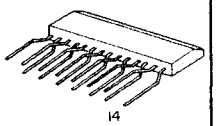
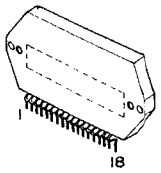


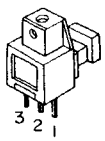
M51131L-702



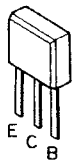
SVI3205



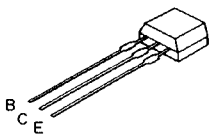
GP1F32R



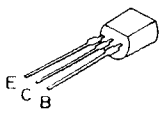
2SA1309AQSTA
2SC3311AQSTA
2SC3312RSTA
2SD1450STTA
UN4215TA



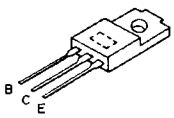
2SD2144STA
DTA114ESTP
DTC114ESTP
DTC144ESTP



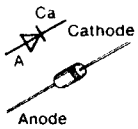
2SA992EFPTA
2SB621AQRSTA
2SC3114STUTA



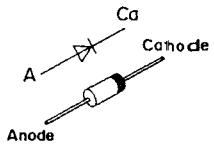
2SB1187DEF
2SD1761DEF



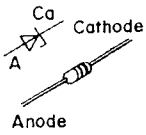
MA165TA
MA167TA
MA700TA
1SS291TA



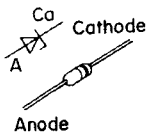
P300DLF



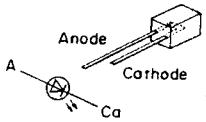
MA4043MTA
MA4047MTA
MA4051LTA
MA4051MTA



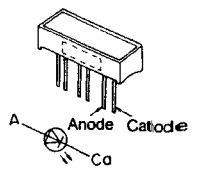
MA4120MTA
MA4150MTA



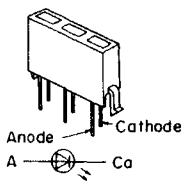
LN473YP-C
LN873RP-C



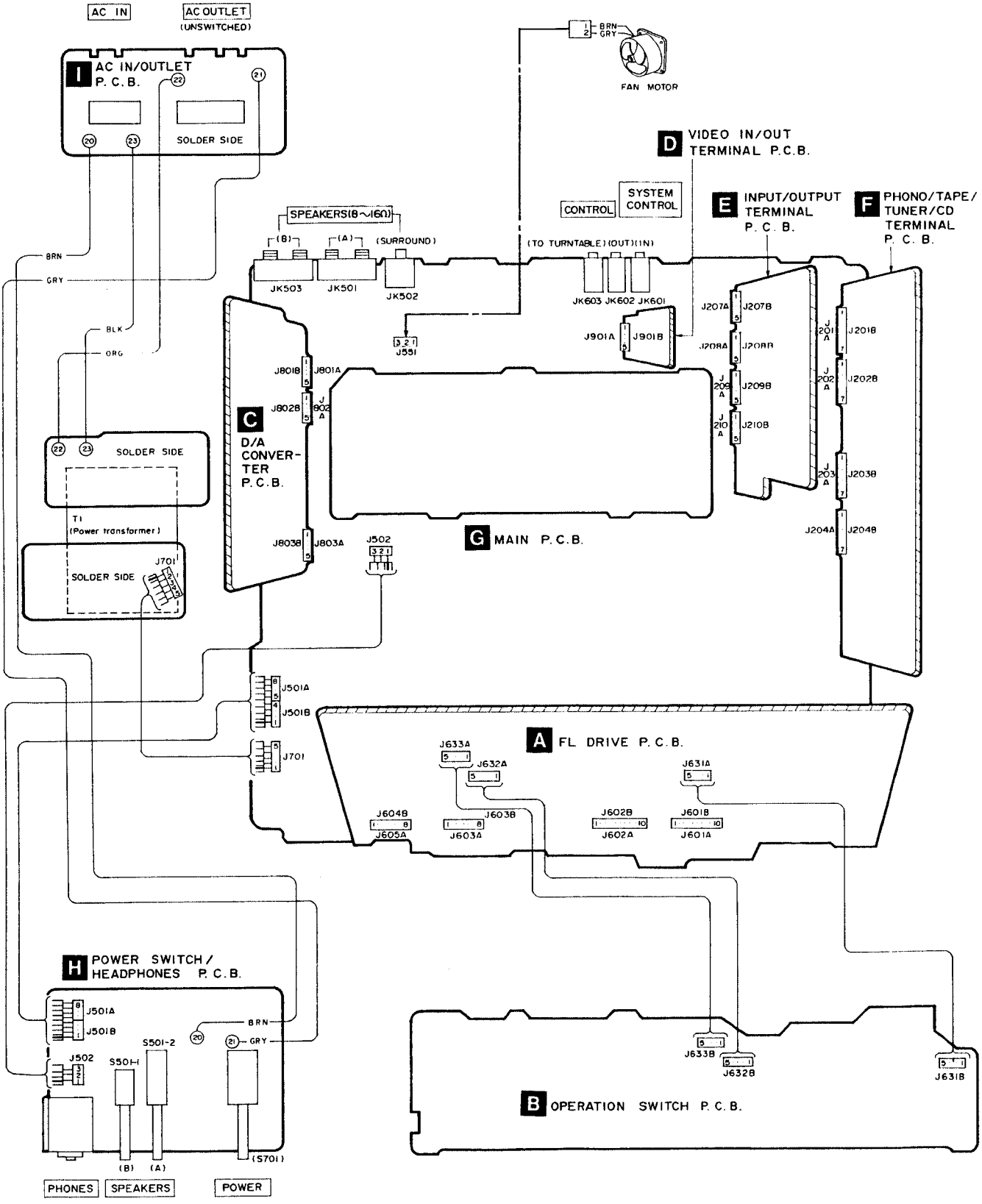
LD701YY



LN038568PH



■ WIRING CONNECTION DIAGRAM



■ FUNCTION OF IC TERMINALS

•IC601

Pin No.	Symbol	I/O	Function Description
1	VDD	I	+5 V
2	B. DATA OUT	O	Bus data signal out
3	B. CLK OUT	O	Bus clock signal out
5	S. BASS PWM	O	Super bass control signal output
6	VR PWM	O	Volume control signal output
7	B. DATA IN	I	Bus data signal input
8	B. CLK IN	I	Bus clock signal input
9	VRA	I	Rotary encoder (VR601) signal input (Volume control)
10	VRB		
11 ~ 13	MUT3 ~ MUT1	O	Muting control signal output
15	RECM	O	Muting control signal output for VTR recording
16	DATA	O	Data signal output
17	CLK	O	Clock signal output
18	STB1	O	The serial data inputted in to IC201 is latched by the STB pulse and the switch is set to ON according to data
19	DATA2	O	LED control signal output
20	CLK2	O	Clock output for IC604
21	PLSTOP	O	Player control signal output
22	$\overline{\text{PLST}}$/$\overline{\text{PHONO}}$		
23	$\overline{\text{PSAY}}$		
24	$\overline{\text{HLT}}$/HST	I	Power supply detect signal input
25	DIR1	I	Sumpling frequency detect signal input
26	CNVSS	—	GND
27	$\overline{\text{RESET}}$	I	Reset signal input
28	X IN	I	Clock signal input
29	X OUT	O	Clock signal output
32	VSS	—	GND
34 ~ 37	KS3 ~ KS0	I	Key scan signal input
38	VP	I	Pull down voltage detect signal input
39	S2	O	Input select control signal output
40	S1		
41 ~ 48	S8 ~ S1	O	FL drive signal output
49 ~ 52	K4 ~ K1		
53 ~ 56	G4 ~ G1		
57	SEL2	O	LED control signal output
58	SEL1		
60	S. BASS. D	O	Super bass control signal output
63	SURR. D	O	Surround control signal output

•IC805

Pin No.	Symbol	I/O	Function Description
1	X IN	I	Clock signal input
2	X OUT	O	Clock signal output
3	MODE1	I	Master clock input
4	CK OUT	—	NC
5	LR CLK	I	LR clock input
6	DATA	I	Serial data input
7	BCK	I	Bit clock input
8	VSS	—	GND
9	MODE2	I	Select the output data
13	MODE3		
10	SHOUT	—	NC
11	LD OUT	O	Lch signal output
12	RD OUT	O	Rch signal output
14	W OUT	O	Ward clock output
15	B OUT	O	Bit clock output
16	VDD	I	To be connected to a power supply (+5 V)

MODE3	MODE2	OUTPUT DATA
H	H	18 bit
	L	16 bit
L	—	20 bit

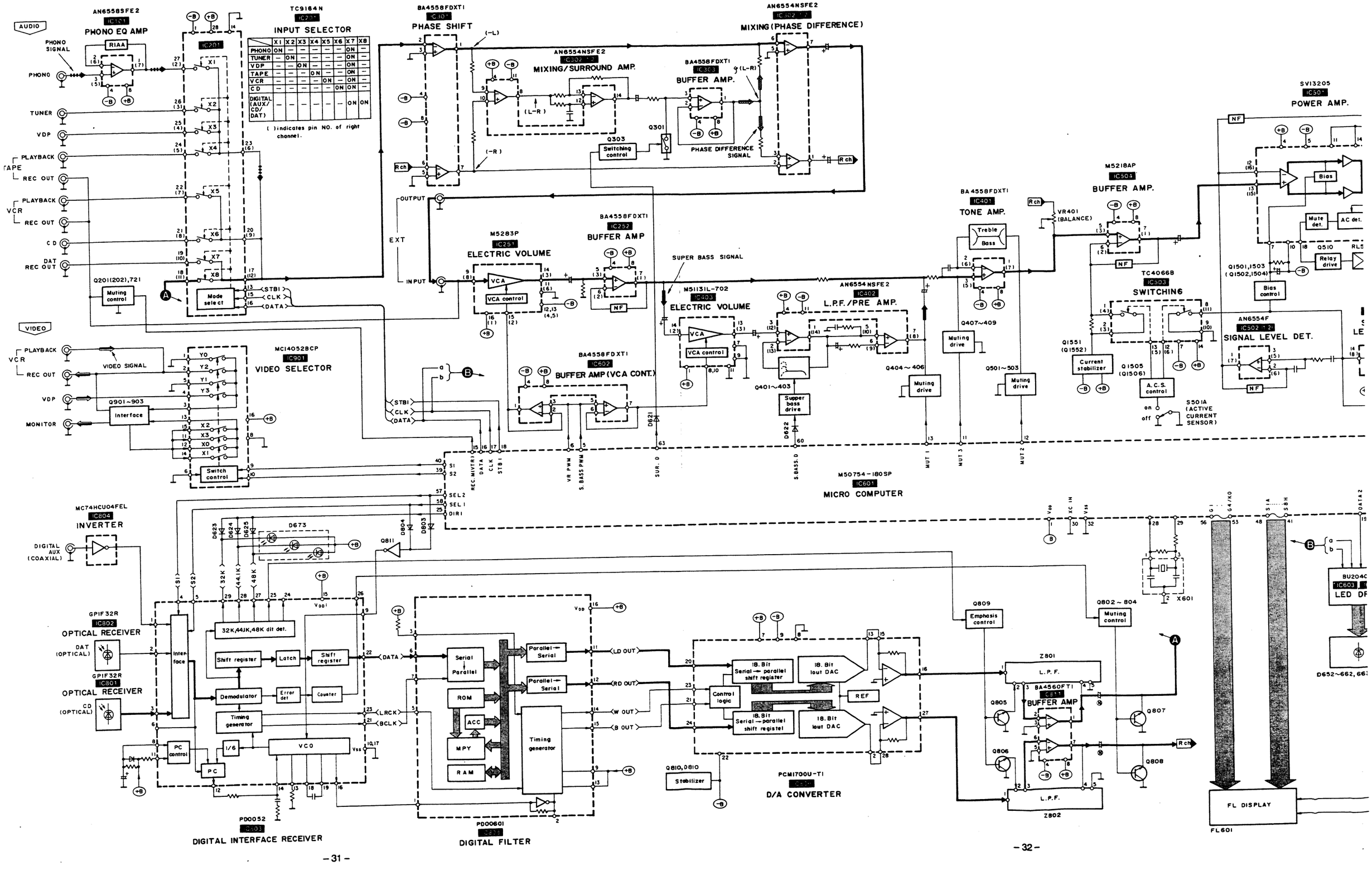
•IC803

Pin No.	Symbol	I/O	Function Description
1	IN1	I	Digital audio interface signal input
2	IN2		
3	IN3		
4	S1	I	Input select 1
5	S2	I	Input select 2
6	OUT	O	Input data select signal out
7	$\overline{\text{TEST}}$	I	——— (VDD)
8	$\overline{\text{RESET}}$	I	Reset signal input
9	VCOINH	I	VCO control signal input
10	VSS	—	Digital ground
11	PCVS	I	VCO control signal input
12	PCOUT	O	Phase comparative output
13	R	—	VCO adjustment (Resistor)
14	VCO IN	I	VCO control signal input
15	VDD1	I	VCO VDD
16	VCO OUT	O	VCO output
17	VSS1	—	VCO ground
18	CA	—	VCO adjustment (Capacitor)
19	CB	—	VCO adjustment (Capacitor)
20	MODE	—	L: 16 bit H: 20 bit
21	BCK	O	Data bit clock output
22	DATA	O	Audio data output
23	LRCK	O	Lch/Rch data output (H: Lch)
24	COPY	—	———
25	EMPH	O	Enphasis data output
26	ERR	O	PLL data error output (H: error)
27	48K	O	Sampling frequency data output LED drive signal output
28	44.1K		
29	32K		
30	VDD	I	Digital VDD

•IC806

Pin No.	Symbol	I/O	Function Description
1	A. GND	—	Analog ground
2	I OUT (R)	O	Current output (Rch)
3	BPO DC (R)	I	Offset filter (Rch)
4	MSB ADJ (R)	—	———
5	SERVO DC (R)	I	Servo filter (Rch)
6	V POT	—	———
7	VCC	I	Analog positive supply
8	D. GND	—	Digital ground
9	−VCC	I	Analog negative supply
10	SERVO DC (L)	I	Servo filter (Lch)
11	MSB ADJ (L)	—	———
12	BPO DC (L)	I	Offset filter (Lch)
13	I OUT (L)	O	Current output (Lch)
14	A. GND	—	Analog ground
15	S. J (L)	I	Summing junction (Lch)
16	V OUT (L)	O	Voltage output (Lch)
17	NC	—	———
18	VDD	I	Digital positive supply
19	NC	—	———
20	DATA (L)	I	Data input (Lch)
21	CLOCK	I	Clock input
22	−VDD	I	Digital negative supply
23	LEC	I	Latch enable control input
24	DATA (R)	I	Data input (Rch)
25	D. GND	—	Digital ground
26	NC	—	———
27	V OUT (R)	O	Voltage output (Rch)
28	S. J (R)	I	Summing junction (Rch)

■ BLOCK DIAGRAM



SU-X902

Notes:
- CD SIGNAL (DIGITAL)
- PHONO SIGNAL
- MAIN SIGNAL
- PHASE DIFFERENCE SIGNAL
- SUPER BASS SIGNAL
- VIDEO SIGNAL

AN6554NSFE2 IC302 *1 *2
MIXING (PHASE DIFFERENCE)

BA4558FDXT1 IC303
BUFFER AMP.
(L-R)
PHASE DIFFERENCE SIGNAL
R ch

SUPER BASS SIGNAL

M51131L-702 IC403
ELECTRIC VOLUME
VCA
VCA control

AN6554NSFE2 IC402
L.P.F. /PRE AMP.

Q401~403
Super bass drive
D622
S.BASS.D

BA4558FDXT1 C401
TONE AMP.
Treble
Bass

R ch
VR401 (BALANCE)

Q404~406
Muting drive
MUT 1

Q407~409
Muting drive
MUT 3

Q501~503
Muting drive
MUT 2

M5218AP IC504
BUFFER AMP.

TC40668 IC503
SWITCHING

Q1551 (Q1552)
Current stabilizer
Q1505 (Q1506)
A.C.S. control
on
off
S501A (ACTIVE CURRENT SENSOR)

SV13205 IC301
POWER AMP.
NF
Bias
Mute det.
AC det.
Q510
Relay drive
RL501
Q1501,1503 (Q1502,1504)
Bias control

AN6554F IC502 *1 *2
SIGNAL LEVEL DET.

AN6554F IC502 *1 *2
SIGNAL LEVEL DET.

FAN MOTOR
Q504, 505
Motor drive
D509 (D510)
D501 (D502)

R ch
HEADPHONES
S501-2 (B)
(SPEAKERS)
S501-1 (A)
SPEAKERS (8~16Ω)
L ch
SURROUND

M50754-180SP IC601
MICRO COMPUTER

Vss Vdp XC IN Vss G1 G4/K0 S1A S8H DATA2 CLK2 K1 K4 KS0 KS3 RESET HLT/NST VR.A VR.B PL STOP PLST PLST/PHONO

B. DATA OUT
B. CLK OUT
B. DATA IN
B. CLK IN
Q601~604
Bus line drive
IN
OUT
SYSTEM CONTROL

START
SYNCHRO
STOP
CONTROL (To TURNTABLE)

X601

BU2040F-T2 IC603 IC604
LED DRIVE
D652~662, 663, 665, 667~671

KEY MATRIX
S601 ~ 614

VR601 (VOLUME)

Q809
Emphasis control
Q802 ~ 804
Muting control

PCM1700U-T1 IC605
D/A CONVERTER
18. Bit Serial — parallel shift register
18. Bit Iout DAC
Control logic
REF
Q810, D810
Stabilizer

Z801
L.P.F.
BA4560FT1 IC611
BUFFER AMP
Q805
Q806
Q807
Q808
Z802
L.P.F.
R ch

FL DISPLAY
FL601

Q605
Switching (Reset)
Q701

Q705, D706
Regulator
Q703,706,D701
Regulator
Q702,D713
Regulator
Q704,D702
Regulator
D707~710
D704
D705

T1
F1
S701 (POWER)
AC IN
F2
AC OUTLET (UNSWITCHED)

SU-X902

■ REPLACEMENT PARTS LIST

Notes : • Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
• The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC101	AN6558SFE2	I. C, PHONO EQ AMP	
IC201	TC9164N	I. C, INPUT SELECTOR	
IC251	M5283P	I. C, ATTENUATOR	
IC252	BA4558FDXT1	I. C, BUFFER AMP	
IC301	BA4558FDXT1	I. C, PHASE SHIFT	
IC302	AN6554NSFE2	I. C, MIXING/SURROUND AMP	
IC303	BA4558FDXT1	I. C, BUFFER AMP	
IC401	BA4558FDXT1	I. C, TONE AMP	
IC402	AN6554NSFE2	I. C, L. P. F/PRE AMP	
IC403	M51131L-702	I. C, ELECTRIC VOLUME	
IC501	SV13205	I. C, POWER AMP	
IC502	AN6554F	I. C, SIGNAL LEVEL DET.	
IC503	TC4066B	I. C, SWITCHING	
IC504	M5218AP	I. C, BUFFER AMP	
IC601	M50754-180SP	I. C, MICRO COMPUTER	
IC602	BA4558FDXT1	I. C, BUFFER AMP	
IC603, 604	BL2040F-T2	I. C, LED DRIVE	
IC801, 802	GP1F32R	I. C, OPTICAL RECEIVER	
IC803	PD0052	I. C, DIGITAL INTERFACE	
IC804	MC74HCU04FEL	I. C, INVERTER	
IC805	PD00601	I. C, DIGITAL FILTER	
IC806	PCM1700U-T1	I. C, D/A CONVERTER	
IC811	SVIBA4560FT1	I. C, BUFFER AMP	
IC901	MC14052BCP	I. C, VIDEO SELECTOR	
		TRANSISTOR(S)	
Q201, 202	2SD2144S	TRANSISTOR	
Q205	2SC3311A-Q	TRANSISTOR	
Q206	2SA1309A-R	TRANSISTOR	
Q301	2SD2144S	TRANSISTOR	
Q303	DTA114ESTP	TRANSISTOR	
Q401, 402	2SD2144S	TRANSISTOR	
Q403	DTA114ESTP	TRANSISTOR	
Q404	DTA114ESTP	TRANSISTOR	
Q405-408	2SD2144S	TRANSISTOR	
Q409	2SA1309A-R	TRANSISTOR	
Q501, 502	2SD1450STTA	TRANSISTOR	
Q503	2SA1309A-R	TRANSISTOR	
Q504	2SC3311A-Q	TRANSISTOR	
Q505	2SA1309A-R	TRANSISTOR	
Q510	2SA992EFPTA	TRANSISTOR	
Q601	2SC3311A-Q	TRANSISTOR	
Q602	DTC144EKT96	TRANSISTOR	
Q603	2SC3311A-Q	TRANSISTOR	
Q604	DTC144EKT96	TRANSISTOR	
Q605	DTC114ESTP	TRANSISTOR	
Q701	UN4215	TRANSISTOR	
Q702	2SB621A-R	TRANSISTOR	
Q703	2SD1761DEF	TRANSISTOR	
Q704	2SB1187DEF	TRANSISTOR	
Q705, 706	2SD1761DEF	TRANSISTOR	
Q721	DTA114ESTP	TRANSISTOR	
Q802, 803	DTC114ESTP	TRANSISTOR	
Q804	DTA114ESTP	TRANSISTOR	
Q805, 806	2SC3114STUTA	TRANSISTOR	
Q807, 808	2SD2144S	TRANSISTOR	
Q809	DTA114ESTP	TRANSISTOR	
Q810	2SC3311A-Q	TRANSISTOR	
Q811	DTC114ESTP	TRANSISTOR	
Q901	2SA1309A-R	TRANSISTOR	
Q902, 903	2SC3311A-Q	TRANSISTOR	
Q1501-1504	2SA1309A-R	TRANSISTOR	
Q1505	DTC114ESTP	TRANSISTOR	
Q1506	DTA114ESTP	TRANSISTOR	
Q1551, 1552	2SC3312RSTA	TRANSISTOR	
		DIODE(S)	
D501, 502	MA167	DIODE	
D504	MA4051MTA	DIODE	
D507, 508	MA4120	DIODE	
D509, 510	MA167	DIODE	
D590	MA165	DIODE	
D601, 602	MA700	DIODE	
D603	MA4047MTA	DIODE	
D604-614	MA165	DIODE	
D615	1SS291TA	DIODE	
D616-618	MA165	DIODE	
D620-625	MA165	DIODE	
D627, 628	MA165	DIODE	
D651	LN873RP-C	DIODE	
D652, 653	LN473YP-C	DIODE	
D654-662	LN873RP-C	DIODE	
D663	LD701YY	DIODE	
D665	LD701YY	DIODE	
D667-671	LN873RP-C	DIODE	
D673	LN038568PH	DIODE	
D701, 702	MA4150M	DIODE	
D703	MA165	DIODE	
D704, 705	MA167	DIODE	
D706	MA4062-H	DIODE	
D707-710 ⚠	P300DLF	DIODE	
D713	MA4240H	DIODE	
D801	MA165	DIODE	
D803, 804	MA165	DIODE	
D809	MA4051-L	DIODE	
D810	MA4043M	DIODE	
D901	MA4047MTA	DIODE	
D902, 903	MA165	DIODE	
D1501, 1502	MA4082MTA	DIODE	
		VARIABLE RESISTOR(S)	
VR401	EWHFDAF20G15	V. R, BALANCE	
VR601	EVQWQAF2524B	V. R, VOLUME	
VR1301	EWC2XAF20C15	V. R, BASS	
VR1302	EWC2XAF20C15	V. R, TREBLE	
		POSISTOR(S)	
PS590	SRPBD47101	POSISTOR	
		COMPONENT COMBINATION(S)	
Z801, 802	HSDN2041B	COMPONENT COMBINATION	
		COIL(S)	
L501, 502	SLQY07G-40	COIL	
L601	ELEXT100KA9	COIL	
L602, 603	RLQZP101KT-Y	COIL	
L800, 801	RLQZP470KT-Y	COIL	
L802	RLQZP101KT-Y	COIL	
L803	RLQZP3R3KT-Y	COIL	
L804	RLQZP1R2KT-Y	COIL	
L805	RLQZP3R3KT-Y	COIL	
L806	RLQZP1R2KT-Y	COIL	
L807	RLQZP3R3KT-Y	COIL	
L808-810	RLQZP1R2KT-Y	COIL	
L811	RLQZP3R3KT-Y	COIL	
		TRANSFORMER(S)	
T1 ⚠	RTP1P5ED04-W	POWER TRANSFORMER	(E, EG)
T1 ⚠	SLT5P288-W	POWER TRANSFORMER	(EB)
		OSCILLATOR(S)	
X601	EFOGC6004T4	CERAMIC FILTER	
		DISPLAY TUBE	
FL601	RSLD074-F	DISPLAY TUBE	
		FUSE(S)	
F1, 2 ⚠	XBA2C207B0	FUSE	
		SWITCH(ES)	
S501A	RSS2B006-M	SW, ACTIVE CURRENT SENSOR	
S501	SSH2128	SW, SPEAKER ON/OFF	
S601	EVQ21405R	SW, PHONO	
S602	EVQ21405R	SW, TUNER	
S603	EVQ21405R	SW, VDP	
S604	EVQ21405R	SW, TAPE	
S605	EVQ21405R	SW, VCR	
S606	EVQ21405R	SW, DIGITAL AUX	
S607	EVQ21405R	SW, CD	
S608	EVQ21405R	SW, DAT	
S609	EVQ21405R	SW, S. DYNAMIC SOUND	
S610	EVQ21405R	SW, VOLUME PRESET	
S611	EVQ21405R	SW, SUPER BASS	
S612	EVQ21405R	SW, SUPER BASS LEVEL UP	
S613	EVQ21405R	SW, SUPER BASS LEVEL DOWN	
S614	EVQ21405R	SW, SURROUND	
S701 ⚠	ESB8249V	SW, POWER	
		CONNECTOR	
J502	RJS1A1703	CONNECTOR (3P)	
J551	SJT3213	CONNECTOR (3P)	
J701	RJS1A1705	CONNECTOR(5P)	
J201A	RJU060G07T	SOCKET	
J202A	RJU060G07T	SOCKET	
J203A	RJU060G07T	SOCKET	
J204A	RJU060G07T	SOCKET	
J207A	RJU060G05T	SOCKET	
J208A	RJU060G05T	SOCKET	
J209A	RJU060G05T	SOCKET	
J210A	RJU060G05T	SOCKET	
J501A	RJS1A1704	CONNECTOR(4P)	
J601A	RJU003K010M1	SOCKET(10P)	
J602A	RJU003K010M1	SOCKET(10P)	
J603A	RJU003K008M1	SOCKET(8P)	
J605A	RJU003K008M1	SOCKET(8P)	
J631A	SJT30549BB1	CONNECTOR	
J632A	SJT30549BB1	CONNECTOR	
J633A	SJT30549BB1	CONNECTOR	
J801A	RJU060G05T	SOCKET	
J802A	RJU060G05T	SOCKET	
J803A	RJU060G05T	SOCKET	
J901A	RJU060G05T	SOCKET	
J201B	RJT060B07	CONNECTOR	
J202B	RJT060B07	CONNECTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
J203B	RJT060B07	CONNECTOR	
J204B	RJT060B07	CONNECTOR	
J207B	RJT060B05	CONNECTOR	
J208B	RJT060B05	CONNECTOR	
J209B	RJT060B05	CONNECTOR	
J210B	RJT060B05	CONNECTOR	
J501B	RJS1A1704	SOCKET(4P)	
J601B	RJT003KD10M1	CONNECTOR(10P)	
J602B	RJT003KD10M1	CONNECTOR(10P)	
J603B	RJT003KD08M1	CONNECTOR(8P)	
J604B	RJT003KD08M1	CONNECTOR(8P)	
J631B	SJS50581BB	SOCKET(5P)	
J632B	SJS50581BB	SOCKET(5P)	
J633B	SJS50581BB	SOCKET(5P)	
J801B	RJT060B05	CONNECTOR	
J802B	RJT060B05	CONNECTOR	
J803B	RJT060B05	CONNECTOR	
J901B	RJT060B05	CONNECTOR	
		JACK(S)	
JK201	SJF3068N	TERMINAL, PHONO	
JK202	SJF3069-5N	TERMINAL, TAPE	
JK203	SJF3069N	TERMINAL, TUNER/CD	
JK204	SJF3069N	TERMINAL, DAT/VCR	
JK205	SJF3069-5N	TERMINAL, VCR/VDP	
JK206	SJF3069N	TERMINAL, EXT	
JK501	RJR0054M	TERMINAL, SPEAKER A	
JK502	SJF3068-6N	TERMINAL, SPEAKER SURROUND	
JK503	RJR0054M	TERMINAL, SPEAKER B	
JK504	SJJ145A-1	JACK, HEADPHONES	
JK601	RJJ33T01	SYNCHRO, SYSTEMCONT. IN	
JK602	RJJ33T01	SYNCHRO, SYSTEMCONT. OUT	
JK603	RJJ33T01	SYNCHRO, CONTROL TO TURNTABL	
JK801	SJFD7-2	TERMINAL, DIGITAL INPUT	
JK901	SJF3061N	MONITOR, VCR/VDP	
JK902 ⚠	SJS9333B	AC OUTLET	(E, EG)
JK902 ⚠	SJS9332B	AC OUTLET	(EB)
JK903 ⚠	SJS9231-1B	AC INLET	
		FUSE HOLDER(S)	
FC1-4 ⚠	SJT388	FUSE HOLDER	
		RELAY(S)	
RL501	SSY134	RELAY	

Notes : • Capacity valuse are in microfarads (uF) unless specified otherwise. P=Pico-farads (pF) F=Farads (F)
• Resistance values are in ohms, unless specified otherwise. 1K=1,000 (OHM) , 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks
	**********	
	SU-X902	
	**********	
		RESISTORS
R107, 108	ERDS2TJ471	1/4W 470
R109, 110	ERDS2TJ473	1/4W 47K
R111, 112	ERDS2TJ331	1/4W 330
R113, 114	ERDS2TJ560T	1/4W 56
R115, 116	ERDS2TJ184T	1/4W 180K
R117, 118	ERDS2TJ123	1/4W 12K
R119, 120	ERDS2TJ224T	1/4W 220K
R121, 122	ERDS2TJ102	1/4W 1K
R123, 124	ERDS2TJ471	1/4W 470
R201, 202	ERDS2TJ472	1/4W 4.7K
R203-206	ERDS2TJ102	1/4W 1K
R207, 208	ERDS2TJ822	1/4W 8.2K
R209, 210	ERDS2TJ102	1/4W 1K
R211, 212	ERDS2TJ821	1/4W 820
R213, 214	ERDS2TJ822	1/4W 8.2K
R215-218	ERDS2TJ102	1/4W 1K
R219, 220	ERDS2TJ222	1/4W 2.2K
R221, 222	ERDS2TJ392T	1/4W 3.9K
R230, 231	ERDS2TJ102	1/4W 1K
R232, 233	ERDS2TJ272T	1/4W 2.7K
R249	ERDS2TJ103	1/4W 10K
R250	ERDS2TJ223	1/4W 22K
R251, 252	ERDS2TJ473	1/4W 47K
R253, 254	ERDS2TJ183T	1/4W 18K
R255, 256	ERDS2TJ153	1/4W 15K
R257, 258	ERDS2TJ473	1/4W 47K
R271, 272	ERDS2TJ152	1/4W 1.5K
R297, 298	ERDS2TJ182	1/4W 1.8K
R301-304	ERDS2TJ223	1/4W 22K
R305, 306	ERDS2TJ224T	1/4W 220K
R307, 308	ERDS2TJ332	1/4W 3.3K
R309, 310	ERDS2TJ223	1/4W 22K
R311, 312	ERDS2TJ393	1/4W 39K
R313-315	ERDS2TJ223	1/4W 22K
R316	ERDS2TJ622T	1/4W 6.2K
R317	ERDS2TJ562	1/4W 5.6K
R318	ERDS2TJ123	1/4W 12K
R319	ERDS2TJ224T	1/4W 220K
R321, 322	ERDS2TJ332	1/4W 3.3K
R324	ERDS2TJ332	1/4W 3.3K
R325, 326	ERDS2TJ392T	1/4W 3.9K
R327, 328	ERDS2TJ104	1/4W 100K
R329	ERDS2TJ332	1/4W 3.3K

Ref. No.	Part No.	Values & Remarks
R331	ERDS2TJ105T	1/4W 1M
R332	ERDS2TJ334	1/4W 330K
R401, 402	ERDS2TJ123	1/4W 12K
R403, 404	ERDS2TJ683	1/4W 68K
R405, 406	ERDS2TJ393	1/4W 39K
R407, 408	ERDS2TJ333	1/4W 33K
R409, 410	ERDS2TJ103	1/4W 10K
R411, 412	ERDS2TJ332	1/4W 3.3K
R413, 414	ERDS2TJ153	1/4W 15K
R415, 416	ERDS2TJ222	1/4W 2.2K
R417, 418	ERDS2TJ221	1/4W 220
R419, 420	ERDS2TJ273	1/4W 27K
R421, 422	ERDS2TJ470	1/4W 47
R423, 424	ERDS2TJ153	1/4W 15K
R425-428	ERDS2TJ152	1/4W 1.5K
R429, 430	ERDS2TJ333	1/4W 33K
R431, 432	ERDS2TJ102	1/4W 1K
R433	ERDS2TJ105T	1/4W 1M
R434	ERDS2TJ334	1/4W 330K
R435, 436	ERDS2TJ102	1/4W 1K
R437	ERDS2TJ105T	1/4W 1M
R438	ERDS2TJ334	1/4W 330K
R439, 440	ERDS2TJ152	1/4W 1.5K
R441, 442	ERDS2TJ222	1/4W 2.2K
R443, 444	ERDS2TJ102	1/4W 1K
R445	ERDS2TJ222	1/4W 2.2K
R446	ERDS2TJ104	1/4W 100K
R447	ERDS2TJ334	1/4W 330K
R448	ERDS2TJ105T	1/4W 1M
R449	ERDS2TJ332	1/4W 3.3K
R450	ERDS2TJ103	1/4W 10K
R451, 452	ERDS2TJ472	1/4W 4.7K
R455	ERDS2TJ103	1/4W 10K
R456	ERDS2TJ151	1/4W 150
R471-474	ERDS2TJ334	1/4W 330K
R477, 478	ERDS2TJ102	1/4W 1K
R500	ERDS2TJ100	1/4W 10
R501	ERDS2TJ104	1/4W 100K
R502	ERDS2TJ105T	1/4W 1M
R507, 508	ERDS2TJ222	1/4W 2.2K
R509, 510	ERDS2TJ563	1/4W 56K
R511, 512	ERDS2TJ182	1/4W 1.8K
R513, 514	ERDS2TJ563	1/4W 56K
R515, 516	ERDS2TJ223	1/4W 22K
R517	ERDS2TJ563	1/4W 56K
R518	ERDS2TJ684	1/4W 680K
R519	ERDS2TJ154	1/4W 150K
R520	ERDS2TJ153	1/4W 15K
R521	ERDS2TJ103	1/4W 10K

Ref. No.	Part No.	Values & Remarks
R522	ERDS1FVJ680T	1/2W 68 ⚠
R524	ERDS2TJ105T	1/4W 1M
R525, 526	ERD25FVJ100T	1/4W 10 ⚠
R527, 528	ERDS1FVJ100T	1/2W 10 ⚠
R529	ERG1SJ331E	1W 330
R530	ERDS2TJ223	1/4W 22K
R531, 532	ERG2SJ331P	2W 330
R533, 534	ERDS2TJ562	1/4W 5.6K
R535-538	ERDS2TJ472	1/4W 4.7K
R539	ERDS2TJ102	1/4W 1K
R540	ERDS2TJ334	1/4W 330K
R541	ERDS2TJ473	1/4W 47K
R542	ERDS2TJ103	1/4W 10K
R543	ERDS1FVJ560T	1/2W 56 ⚠
R545, 546	ERDS2TJ223	1/4W 22K
R550	ERDS2TJ102	1/4W 1K
R551	ERDS2TJ104	1/4W 100K
R552, 553	ERG1SJ331E	1W 330
R554	ERD25FJ470	1/4W 47 ⚠
R590	ERDS2TJ392T	1/4W 3.9K
R601	ERDS2TJ223	1/4W 22K
R602-604	ERDS2TJ393	1/4W 39K
R605	ERDS2TJ223	1/4W 22K
R606-608	ERDS2TJ393	1/4W 39K
R609-612	ERDS2TJ100	1/4W 10
R613	ERDS2TJ6R8	1/4W 6.8
R615, 616	ERDS2TJ151	1/4W 150
R617-620	ERDS2TJ104	1/4W 100K
R621, 622	ERDS2TJ103	1/4W 10K
R623	ERDS2TJ222	1/4W 2.2K
R624	ERDS2TJ332	1/4W 3.3K
R625	ERDS2TJ103	1/4W 10K
R626	ERDS2TJ332	1/4W 3.3K
R627	ERDS2TJ222	1/4W 2.2K
R628	ERDS2TJ332	1/4W 3.3K
R629	ERDS2TJ103	1/4W 10K
R630	ERDS2TJ102	1/4W 1K
R631	ERDS2TJ103	1/4W 10K
R632	ERDS2TJ222	1/4W 2.2K
R633	ERDS2TJ103	1/4W 10K
R634	ERDS2TJ822	1/4W 8.2K
R635	ERDS2TJ393	1/4W 39K
R636	ERDS2TJ332	1/4W 3.3K
R637	ERDS2TJ103	1/4W 10K
R638	ERDS2TJ104	1/4W 100K
R639	ERDS2TJ105T	1/4W 1M
R640	ERDS2TJ102	1/4W 1K
R641	ERDS2TJ223	1/4W 22K
R642	ERDS2TJ103	1/4W 10K

Ref. No.	Part No.	Values & Remarks
R643	ERDS2TJ105T	1/4W 1M
R646	ERDS2TJ223	1/4W 22K
R647	ERDS2TJ103	1/4W 10K
R651	ERDS2TJ331	1/4W 330
R652	ERDS2TJ181T	1/4W 180
R653, 654	ERDS2TJ331	1/4W 330
R655, 656	ERDS2TJ181T	1/4W 180
R657, 658	ERDS2TJ390	1/4W 39
R659, 660	ERDS2TJ272T	1/4W 2.7K
R661	ERDS2TJ331	1/4W 330
R662	ERDS2TJ101	1/4W 100
R663	ERDS2TJ331	1/4W 330
R697-699	ERDS2TJ101	1/4W 100
R701, 702	ERDS1FVJ472T	1/2W 4.7K ⚠
R703	ERD25FJ101	1/4W 100 ⚠
R704	ERDS2TJ473	1/4W 47K
R705	ERDS2TJ103	1/4W 10K
R706	ERDS1FVJ2R2T	1/2W 2.2 ⚠
R707	ERDS1FVJ3R3T	1/2W 3.3 ⚠
R709	ERDS2TJ562	1/4W 5.6K
R710	ERDS1FVJ331T	1/2W 330 ⚠
R711	ERDS2TJ102	1/4W 1K
R713	ERDS2TJ2R2T	1/4W 2.2
R716	ERDS2TJ2R2T	1/4W 2.2
R717	ERDS2TJ150T	1/4W 15
R721, 722	ERDS2TJ334	1/4W 330K
R723	ERDS2TJ472	1/4W 4.7K
R727	ERDS2TJ104	1/4W 100K
R801	ERDS2TJ750	1/4W 75
R803	ERDS2TJ104	1/4W 100K
R804	ERDS2TJ182	1/4W 1.8K
R805	ERDS2TJ122	1/4W 1.2K
R809	ERDS2TJ122	1/4W 1.2K
R810	ERDS2TJ103	1/4W 10K
R811	ERDS2TJ102	1/4W 1K
R813	ERDS2TJ102	1/4W 1K
R814	ERDS2TJ103	1/4W 10K
R815	ERDS2TJ560T	1/4W 56
R816	ERDS2TJ472	1/4W 4.7K
R817-819	ERDS2TJ473	1/4W 47K
R821	ERDS2TJ101	1/4W 100
R823	ERDS2TJ472	1/4W 4.7K
R827	ERDS1FVJ271T	1/2W 270 ⚠
R828	ERDS1FVJ680T	1/2W 68 ⚠
R829	ERDS1FVJ820T	1/2W 82 ⚠
R833, 834	ERDS2TJ221	1/4W 220
R837, 838	ERDS2TJ474	1/4W 470K
R839, 840	ERDS2TJ102	1/4W 1K
R841	ERDS2TJ104	1/4W 100K
R842-844	ERDS2TJ272T	1/4W 2.7K
R845-848	ERDS2TJ471	1/4W 470
R849	ERDS2TJ105T	1/4W 1M

Ref. No.	Part No.	Values & Remarks
R850	ERDS2TJ182	1/4W 1.8K
R851, 852	ERDS2TJ392T	1/4W 3.9K
R855, 856	ERDS2TJ103	1/4W 10K
R857	ERDS2TJ471	1/4W 470
R858	ERDS2TJ182	1/4W 1.8K
R860-864	ERDS2TJ101	1/4W 100
R901, 902	ERDS2TJ471	1/4W 470
R904, 905	ERDS2TJ392T	1/4W 3.9K
R906, 907	ERDS2TJ103	1/4W 10K
R908	ERDS2TJ182	1/4W 1.8K
R909	ERG1SJ151E	1W 150
R910	ERDS2TJ102	1/4W 1K
R911	ERDS2TJ392T	1/4W 3.9K
R912, 913	ERDS2TJ470	1/4W 47
R914	ERDS1FVJ101T	1/2W 100 ⚠
R915, 916	ERDS2TJ561	1/4W 560
R917	ERDS2TJ471	1/4W 470
R918, 919	ERDS2TJ470	1/4W 47
R920	ERDS2TJ393	1/4W 39K
R1301, 1302	ERDS2TJ102	1/4W 1K
R1303, 1304	ERDS2TJ822	1/4W 8.2K
R1305, 1306	ERDS2TJ223	1/4W 22K
R1307, 1308	ERDS2TJ392T	1/4W 3.9K
R1309, 1310	ERDS2TJ182	1/4W 1.8K
R1311, 1312	ERDS2TJ821	1/4W 820
R1313, 1314	ERDS2TJ333	1/4W 33K
R1501, 1502	ERDS2TJ123	1/4W 12K
R1503, 1504	ERDS2TJ103	1/4W 10K
R1505, 1506	ERDS2TJ101	1/4W 100
R1507, 1508	RHEEMKR10VC	2W 0.1
R1509-1512	ERDS2TJ103	1/4W 10K
R1513-1516	ERDS2TJ104	1/4W 100K
R1517, 1518	ERDS2TJ472	1/4W 4.7K
R1519, 1520	ERDS2TJ272T	1/4W 2.7K
R1521-1526	ERDS2TJ563	1/4W 56K
R1527, 1528	ERDS2TJ103	1/4W 10K
R1529, 1530	ERDS2TJ392T	1/4W 3.9K
R1531, 1532	ERDS2TJ223	1/4W 22K
R1533, 1534	ERDS2TJ272T	1/4W 2.7K
R1535, 1536	ERDS2TJ223	1/4W 22K
R1537, 1538	ERDS2TJ103	1/4W 10K
R1539	ERDS2TJ333	1/4W 33K
R1540	ERDS2TJ102	1/4W 1K
R1541, 1542	ERDS2TJ752T	1/4W 7.5K
R1551, 1552	ERDS2TJ123	1/4W 12K
R1553, 1554	ERDS2TJ103	1/4W 10K
R1555, 1556	ERDS2TJ562	1/4W 5.6K
R1557, 1558	ERDS2TJ103	1/4W 10K
R1559, 1560	ERDS2TJ273	1/4W 27K
R1561-1564	ERDS2TJ102	1/4W 1K
R1565, 1566	ERDS2TJ123	1/4W 12K
R1567, 1568	ERDS2TJ683	1/4W 68K

Ref. No.	Part No.	Values & Remarks
		CAPACITORS
C107, 108	ECBT1H101KB5	50V 100P
C109, 110	ECBT1H102KB5	50V 1000P
C111, 112	ECA1EAP330B	25V 33U
C115, 116	ECFR1E223KR	25V 0.022U
C117, 118	ECFR1E682KR	25V 6800P
C119, 120	ECA1HAP010B	50V 1U
C121, 122	ECBT1E103ZF	25V 0.01U
C200	ECBT1E223ZF	25V 0.022U
C201	ECBT1H470J5	50V 47P
C203, 204	ECBT1E103ZF	25V 0.01U
C205, 206	ECBT1H180J5	50V 18P
C207, 208	ECBT1H151KB5	50V 150P
C209-216	ECBT1H101KB5	50V 100P
C219, 220	ECBT1H151KB5	50V 150P
C221-230	ECBT1H101KB5	50V 100P
C231, 232	ECBT1E103ZF	25V 0.01U
C250	ECEA1CKA220B	16V 22U
C251, 252	ECEA1HKA3R3B	50V 3.3U
C253, 254	ECEA1HKAR47B	50V 0.47U
C255, 256	ECBT1H180J5	50V 18P
C258, 259	ECBT1E223ZF	25V 0.022U
C271, 272	ECBT1H101KB5	50V 100P
C273, 274	ECEA1CKA220B	16V 22U
C297, 298	ECBT1H151KB5	50V 150P
C301, 302	ECA1HAP3R3B	50V 3.3U
C303	ECBT1H680J5	50V 68P
C304	ECQV1H823JZ	50V 0.082U
C305	ECEA1HKA3R3B	50V 3.3U
C306	ECBT1H221KB5	50V 220P
C307	ECEA1HKA3R3B	50V 3.3U
C309, 310	ECBT1H820KB5	50V 82P
C311, 312	ECA1HAP3R3B	50V 3.3U
C313, 314	ECBT1E103ZF	25V 0.01U
C395, 396	ECBT1H120J5	50V 12P
C398, 399	ECBT1E103ZF	25V 0.01U
C411, 412	ECFR1E473KR	25V 0.047U
C413, 414	ECEA1HKAR22B	50V 0.22U
C415, 416	ECFR1E682KR	25V 6800P
C417, 418	ECFR1E272KR	25V 2700P
C419, 420	ECFR1E333KR	25V 0.033U
C421, 422	ECEA1HKA3R3B	50V 3.3U
C423, 424	ECA1HAP100B	50V 10U
C427	ECEA0JKA470B	6.3V 47U
C432	ECEA1CKA100B	16V 10U
C433, 434	ECBT1E103ZF	25V 0.01U
C451, 452	ECEA1CKA220B	16V 22U
C453, 454	ECA1HAP010B	50V 1U
C455	ECEA1CKA220B	16V 22U
C456	ECEA1CKA100B	16V 10U

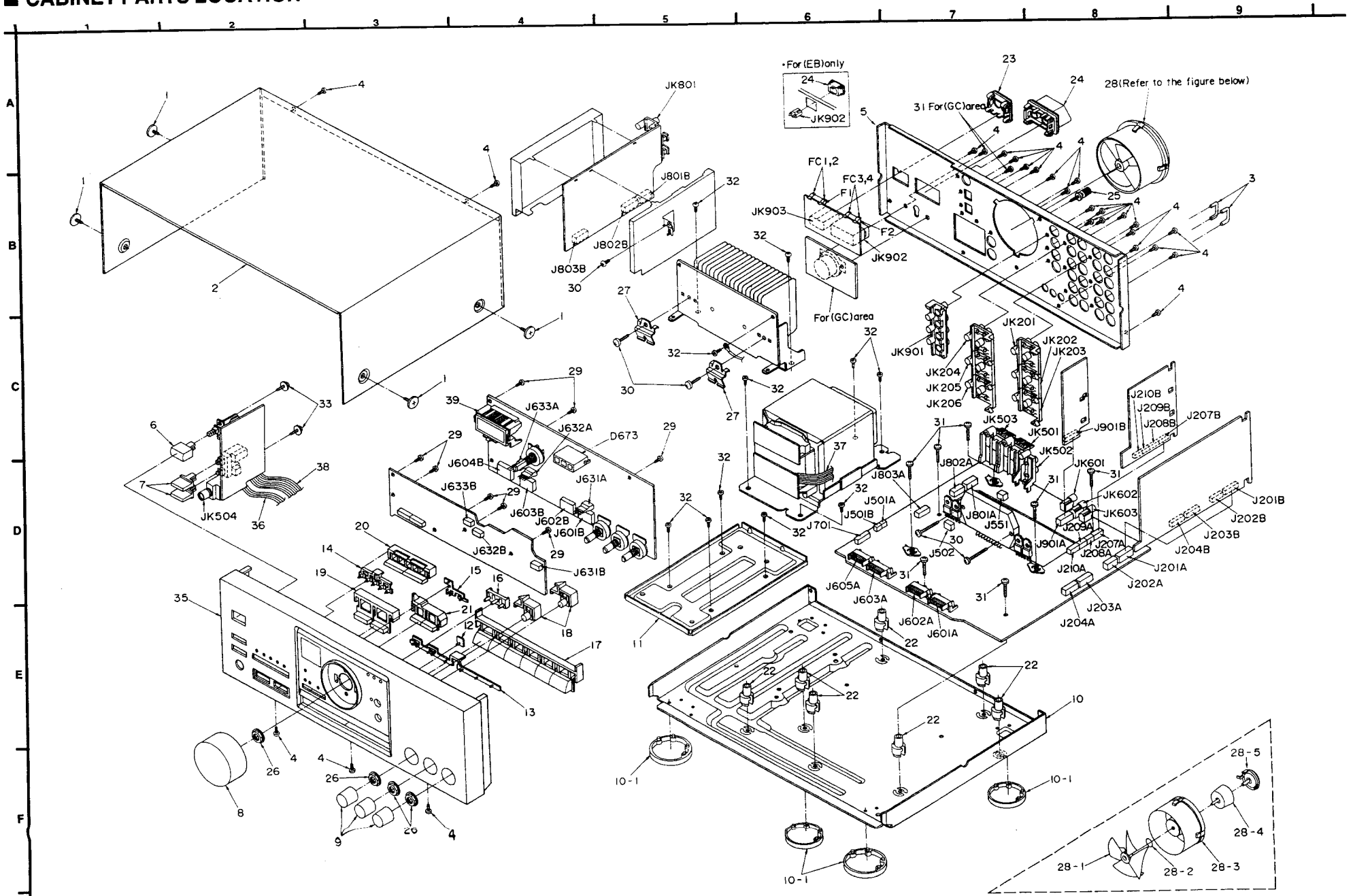
Ref. No.	Part No.	Values & Remarks
C457	ECEA1CKA220B	16V 22U
C471, 472	ECA1HAP3R3B	50V 3.3U
C473, 474	ECBT1H101KB5	50V 100P
C475, 476	ECBT1H821KB5	50V 820P
C477, 478	ECBT1H680J5	50V 68P
C479, 480	ECEA1HKA3R3B	50V 3.3U
C483, 484	ECBT1E1032F	25V 0.01U
C501, 502	ECBT1H331KB5	50V 330P
C503, 504	ECBT1H151KB5	50V 150P
C505, 506	ECA1HAP2R2B	50V 2.2U
C507, 508	ECBT1H100J5	50V 10P
C509, 510	ECKT1H223ZF	50V 0.022U
C513	ECEA1CKA100B	16V 10U
C514	ECEA0JKA470B	6.3V 47U
C516-518	ECBT1E103ZF	25V 0.01U
C519	ECA1HAP330B	50V 33U
C520	ECA2AAP100B	100V 10U
C521	ECA1EM101B	25V 100U
C523, 524	ECA1HAP3R3B	50V 3.3U
C525, 526	ECBT1H561KB5	50V 560P
C535, 536	ECBT1E223ZF	25V 0.022U
C537, 538	ECBT1H102KB5	50V 1000P
C539, 540	ECBT1E223ZF	25V 0.022U
C541-546	ECBT1H102KB5	50V 1000P
C597, 598	ECBT1H102KB5	50V 1000P
C601	ECBT1E103ZF	25V 0.01U
C602	ECEA0JU102	6.3V 1000U
C603	ECEA1HKA3R3B	50V 3.3U
C604	ECEA1VKA100B	35V 10U
C605	ECBT1E103ZF	25V 0.01U
C606, 607	ECEA1HKA010B	50V 1U
C608	ECBT1H101KB5	50V 100P
C610	ECEA1HKA010B	50V 1U
C651, 652	ECBT1H104ZF5	50V 0.1U
C653, 654	ECBT1H470J5	50V 47P
C700	ECKWNS103ZV	500V 0.01U
C701	ECBT1H102KB5	50V 1000P
C702	ECKR1H103ZF5	50V 0.01U
C703, 704	ECEA1EKA100B	25V 10U
C705, 706	ECEA1CKA100B	16V 10U
C707	ECBT1E103ZF	25V 0.01U
C708	ECEA1AU221	10V 220U
C709	ECEA1HKA2R2B	50V 2.2U
C710	ECBT1E223ZF	25V 0.022U
C711, 712	ECOS1JP682CZ	63V 6800U
C713	ECQE2104KF3	100V 0.1U
C715	ECEA1VKA100B	35V 10U
C716	ECBT1H102KB5	50V 1000P
C721	ECEA1HKA010B	50V 1U
C731	ECFR1E104ZF5	25V 0.1U
C800	ECBT1E223ZF	25V 0.022U
C801	ECBT1E103ZF	25V 0.01U

Ref. No.	Part No.	Values & Remarks
C802, 803	ECEA1CKA100B	16V 10U
C804	ECBT1H104ZF5	50V 0.1U
C805	ECBT1H102KB5	50V 1000P
C806	ECFR1E104ZF5	25V 0.1U
C807	ECEA1CKA100B	16V 10U
C808	ECEA1HKA010B	50V 1U
C809	ECQV1H104JZ3	50V 0.1U
C810	ECBT1H220J5	50V 22P
C811	ECEA0JKA101B	6.3V 100U
C814	ECEA0JKA101B	6.3V 100U
C815	ECEA1CKA100B	16V 10U
C816	ECBT1H102KB5	50V 1000P
C818	ECEA1EKA4R7B	25V 4.7U
C819, 820	ECEA0JKA101B	6.3V 100U
C821	ECBT1E103ZF	25V 0.01U
C822	ECEA1EKA100B	25V 10U
C823	ECBT1H102KB5	50V 1000P
C825, 826	ECEA1CKN100B	16V 10U
C827, 828	ECBT1C103NS5	16V 0.01U
C829, 830	ECBT1H102KB5	50V 1000P
C831	ECBT1E103ZF	25V 0.01U
C833	ECBT1H104ZF5	50V 0.1U
C834	ECBT1H102KB5	50V 1000P
C835	ECBT1E103ZF	25V 0.01U
C836-838	ECEA1EKA4R7B	25V 4.7U
C840	ECBT1H331KB5	50V 330P
C843	ECBT1H220J5	50V 22P
C844	ECBT1H102KB5	50V 1000P
C901	ECBT1E103ZF	25V 0.01U
C902	ECEA1CKA100B	16V 10U
C903, 904	ECEA1CKA470B	16V 47U
C1301, 1302	ECFR1E123KR	25V 0.012U
C1303, 1304	ECFR1E683KR	25V 0.068U
C1305, 1306	ECFR1E472KR	25V 4700P
C1307, 1308	ECFR1E223KR	25V 0.022U
C1309, 1310	ECA1HAP010B	50V 1U
C1501-1504	ECEA1HKA2R2B	50V 2.2U
C1505, 1506	ECFR1E223KR	25V 0.022U
C1507, 1508	ECBT1H820KB5	50V 82P
C1509-1512	ECFR1E104KR	25V 0.1U
C1513, 1514	ECBT1H331KB5	50V 330P
C1515, 1516	ECBT1C103NS5	16V 0.01U
C1517, 1518	ECBT1E103ZF	25V 0.01U
C1521A	ECA1HAP2R2B	50V 2.2U
C1521	ECBT1H102KB5	50V 1000P
C1522A	ECA1HAP2R2B	50V 2.2U
C1522	ECBT1H102KB5	50V 1000P
C1551, 1552	ECA1HAP3R3B	50V 3.3U
C1553, 1554	ECBT1H151KB5	50V 150P
C1555, 1556	ECEA1HKA2R2B	50V 2.2U
C1557, 1558	ECQV1H124JZ3	50V 0.12U
C1559, 1560	ECBT1E103ZF	25V 0.01U

Ref. No.	Part No.	Values & Remarks

SU-X902

■ CABINET PARTS LOCATION

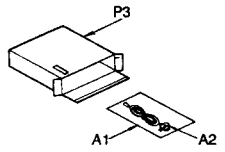


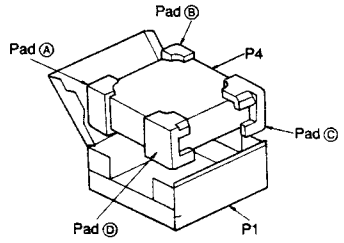
PANA-05251 / Druck21

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RHD30007	SCREW	
2	RGMD024A-2K	COVER	
3	SJP9205-2Y	SHORTING PIN	
4	XTBS3+8JFZ1	SCREW	
5	RGR0105C-A1	REAR PANEL	(E)
5	RGR0105B-A2	REAR PANEL	(EB)
5	RGR0105C-B1	REAR PANEL	(EG)
6	RGU0030	KNOB, POWER	
7	RGU0101	KNOB, SPEAKER	
8	RGW0121-K	KNOB, MAIN VOL.	
9	RGW0125-K	KNOB, BALANCE VOL.	
10	RFKJUX502E-K	BUTTON BOARD ASS'Y	
10-1	RKA0011-2	FOOT	
11	RMA0138	PLATE	
12	RFKNUX502EAK	PANEL LIGHT	
13	RGL0094-X	PANEL LIGHT	
14	RGL0096-X	PANEL LIGHT	
15	RFKNUX502EBK	PANEL LIGHT	
16	RGL0131-C	PANEL LIGHT	
17	RGU0470-K1	BUTTON, SELECT	
18	RGU0471-K1	BUTTON, VOL. PRESET	
19	RGU0472-C	KNOB, S. DYNAMIC	
20	RGU0473-K1	BUTTON, S. DYNAMIC UP/DOWN	
21	RGU0474A-K	BUTTON, TAPE	
22	SHE187-2	HOLDER	
23	SJS9231A	AC INLET COVER	
24	SJS9333A	AC OUTLET COVER	(E, EG)
24	SJS9332A	AC OUTLET COVER	(EB)
25	SNE2123	GND SCREW	
26	SNE4021-1	NUT	
27	SUS894-1	ANGLE	
28	SYE1128-2	FUN ASS'Y	
28-1	SHE232	FAN	
28-2	SUS271	SPRING	
28-3	SUS233	FAN CASE	
28-4	MDN-4RB4MRC	MOTOR	
28-5	SHE234	CAP	
29	XTBS26+8J	SCREW	
30	XTB3+16JFZ	SCREW	
31	XTB3+20JFZ	SCREW	
32	XTB3+8JFZ	SCREW	
33	XTWS3+8T	SCREW	
35	RFKGUX902E-K	FRONT PANEL ASS'Y	
36	RMJ1803200KQ	FLAT CABLE	
37	RMJ1805110KQ	FLAT CABLE	
38	RMJ1808150KQ	FLAT CABLE	
39	RMN0102	FL HOLDER	

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIAL	
P1	RPG0841	CARTON BOX	
P2	RPN0412	PAD	
P3	SPSD152	ACCESSORIES BOX	
P4	XZB60X65A01Z	POLYETHYLENE COVER	
		ACCESSORIES	
A1	RQF1096	INST. MANUAL ASS'Y	(E)
A1	RQF1097	INST. MANUAL ASS'Y	(EB)
A1	RQF1098	INST. MANUAL ASS'Y	(EG)
A1-1	RQT1000-B	INSTRUCTIONS MANUAL	(EB)
A1-1	RQT1001-D	INSTRUCTIONS MANUAL	(EG)
A1-1	RFKSUX502E-K	INSTRUCTIONS MANUAL	(E)
A1-2	RQA0013	WARRANTY CARD	
A1-3	RQCB0169	SERVICE CENTER LIST	
A1-4	SPB1061	POLYETHYLENE COVER	
A2 ⚠	SJA187	AC POWER SUPPLY CORD	(E, EG)
A2 ⚠	SJA188	AC POWER SUPPLY CORD	(EB)

■ PACKAGING





P2: Pad Ⓐ Ⓑ Ⓒ Ⓓ ass'y; RPN0412

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PANA-05251 / Druck22

ORDER NO. AD9411323P8

Parts Change Notice

Model No. ST-X902L (E, EB, GC, GN) (EG) (EF) (EI)
ST-X902LA (E, EB, EF, GN) (EG, EI) (GC) /SU-X902 (E, EB, EG)

Please revise the original parts list in the Service Manual to conform to the change (s) shown below. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change *The circled item indicates the reason. If no marking, see the Notes in the bottom column.

1. Improve performance
2. Change of material or dimension
3. To meet approved specification
4. Standardization
5. Addition
6. Deletion
7. Correction
8. Other

Interchangeability Code **The circled item Indicates the interchangeability. If no marking, see the Notes in the bottom column.

	Parts	Unit Production	
A	Original / New	Early / Late	Original or new parts may be used in either early or late production units. Use original parts until the supply is exhausted, then stock new parts.
B	Original / New	Early / Late	Original parts may be used in early production units only. New parts may be used in either or late production units. Use original parts where possible, then stock new parts.
Ⓒ	Original / New	Early / Late	New parts are to be used in both early and late production units. Stock new parts only.
D	Original / New	Early / Late	Original parts must be used in early production units. New parts must be used in late production units only. Stock both original and new parts.
E	Other		

Part Number Information

Model No.	Ref. No.	Original Part No.	New Part No.	Notes (*, **)	Part Name & Description	Q'ty	
TRANSISTOR							
ST-X902L / ST-X902L A	Q902	DTC144EKT96	**DTC144ESTP**	7,C	TRANSISTOR		
	Q911	DTC144EKT96	**DTC144ESTP**	7,C	TRANSISTOR		
SU-X902	Q602	DTC144EKT96	**DTC144ESTP**	7,C	TRANSISTOR		
	Q604	DTC144EKT96	**DTC144ESTP**	7,C	TRANSISTOR		

Part file this parts change notice with your copy of the Service Manual for model No.

ST-X902L (E, EB, GC, GN)	Order No. AD9103043C8.
ST-X902L (EG)	Order No. AD9103059A2.
ST-X902L (EF)	Order No. AD9104097A2.
ST-X902L (EI)	Order No. AD9104098A2.
ST-X902LA (E, EB, EF, GN)	Order No. AD9203064A8.
ST-X902LA (EG, EI)	Order No. AD9203065A2.
ST-X902L (GC)	Order No. AD9204109A3.
SU-X902 (E, EB, EG)	Order No. AD9103052C2.

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